

20020412.qrp v02_n523.qrl.20020412

Date: Fri, 12 Apr 2002 19:03:05 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2523

QRP-L Digest 2523

Topics covered in this issue include:

- 1) [124460] Re: Cutting PCB Material
by "blinn" <blinn@smgazette.com>
- 2) [124461] RE: Cutting PCB Material
by "Kory Hamzeh" <kory@avatar.com>
- 3) [124462] QST QRP Article error
by "John P. Cummins, Sr." <jpcummins@charter.net>
- 4) [124463] Re: Cutting PCB Material
by "bob baxter" <rbaxter@cybertrails.com>
- 5) [124464] Re: Antennas for Field Days
by "Karl F. Larsen" <k5di@zianet.com>
- 6) [124465] Re: FW: [Lowfer] Triflier Core Winding
by "Karl F. Larsen" <k5di@zianet.com>
- 7) [124466] R.F. Probe
by "Delbert Long" <ad6we@hotmail.com>
- 8) [124467] Re: Cutting PCB Material
by n5ib@juno.com
- 9) [124468] you can use a set of snips to cut PCB material
by ve3ab@mail.mondenet.com
- 10) [124469] Re: Linda Smith...
by "Karl F. Larsen" <k5di@zianet.com>
- 11) [124470] Radio Receiver Design
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 12) [124471] Nor'Easter
by "Walt Amos" <k8cv@netzero.net>
- 13) [124472] Re: R.F. Probe
by "Brice D. Hornback" <bdh@cyberbound.net>
- 14) [124473] What to look for in external speaker?
by Jim Durkin <jimdurkin@yahoo.com>
- 15) [124474] Re: Last Posting: FS/FT QRP+/COMPANION/TT-1202/MIC
by "Michael Melland" <w9wis@charter.net>
- 16) [124475] Antenna help.
by Arthur Moe <kb7ww@easystreet.com>
- 17) [124476] Re: Antenna help.
by "George, W5YR" <w5yr@att.net>
- 18) [124477] Re: Cutting PCB Material
by Russ Hines <wb8zcc@one.net>
- 19) [124478] April issue of QRP Quarterly

by <mgoins@usa.net>

20) [124479] RE: Antenna help.
by "Karl Kanalz" <kkanalz@gcecispc.com>

21) [124480] RE: antenna tuning question
by Nick Kennedy <nkennedy@tcainet.net>

22) [124481] Neet Looking Tins
by kb1dxc <kb1dxc@discovernet.net>

23) [124482] Re: Antenna help.
by "Gordon Cougar" <gcouger@provalue.net>

24) [124483] DDS VFO
by "Randall M. Payne" <payner1@strato.net>

25) [124484] seeking SMT parts
by John Wagner <john@wagner-usa.net>

26) [124485] Re: antenna tuning question
by "James R. Duffey" <jamesd1@flash.net>

27) [124486] PC Board materials
by "Stuart Rohre" <rohre@arlut.utexas.edu>

28) [124487] Shearing printed circuit boards?
by "Stuart Rohre" <rohre@arlut.utexas.edu>

29) [124488] Re: Antenna help.
by "James R. Duffey" <jamesd1@flash.net>

30) [124489] NOXFE: Good Guy Award
by NV9Z@aol.com

31) [124490] Q: OT - Surface mount component ID
by "John A. Evans - N0HJ" <jaevans@codenet.net>

32) [124491] QRP+/COMPANION SOLD--THANKS
by ARDUJENSKI@aol.com

33) [124492] Re: NOXFE: Good Guy Award
by Dave Sjolín <sjolin@swbell.net>

34) [124493] QRP Items For Sale
by "Ronald Davis" <RDavis24@carolina.rr.com>

35) [124494] Re: [Neet Looking Tins]
by "P.Ermisch" <ermisch@usa.net>

36) [124495] End of QRP?
by "Graeme Zimmer" <gzimmer@bigpond.com>

37) [124496] Re: End of QRP?
by "Trevor Jacobs" <fxtech@earthlink.net>

38) [124497] OT- BBC Radio SW broadcasts
by "Alan Kaul" <alan.kaul@worldnet.att.net>

39) [124498] Re: OT - Surface mount component ID
by "Jack Bennett" <J.Bennett@lboro.ac.uk>

40) [124499] Re: AOL 7.0 Tin Project?
by "Dave Fifield" <dave@redhotradio.com>

41) [124500] SWL / Nor'Easter Re: Electrically Short Antenna with MUCH Better Efficiency
by John R Kirby <n3aaz-qrp@juno.com>

42) [124501] Re: Antenna help.
by "Pastor-KC1DI" <elbc@pivot.net>

- 43) [124502] Re: Cutting PCB Material
by Haines Brown <brownh@hartford-hwp.com>
- 44) [124503] QRP DEMISE?
by "W2WU" <w2wurjj@verizon.net>
- 45) [124504] re: Neet Looking Tins
by kb1dxc <kb1dxc@discovernet.net>
- 46) [124505] re: Neet Looking Tins
by "Karl F. Larsen" <k5di@zianet.com>
- 47) [124506] Re: End of QRP?
by "Karl F. Larsen" <k5di@zianet.com>
- 48) [124507] Re: End of QRP?
by Alex <kr1st@amsat.org>
- 49) [124508] Re: Cutting PCB Material
by Pete Burbank <plburbank@kih.net>
- 50) [124509] Re: End of QRP?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 51) [124510] Re: End of QRP?
by David Heintzleman <pstrdave@kdsi.net>
- 52) [124511] Info on Ten Tec 1320
by "John Burnley" <JBurnley@ifmc.org>
- 53) [124512] RIG SALE: TT 515
by David Heintzleman <pstrdave@kdsi.net>
- 54) [124513] info please
by Bruce Ratray <rattray@gpfn.sk.ca>
- 55) [124514] looking for.....
by Bruce Ratray <rattray@gpfn.sk.ca>
- 56) [124515] looking for..... (fwd)
by Bruce Ratray <rattray@gpfn.sk.ca>
- 57) [124516] Re: Antennas for Field Days
by Bill Coleman <aa4lr@arrl.net>
- 58) [124517] Mountains (was Antennas for Field Day)
by Paul Womble <pwomble1@tampabay.rr.com>
- 59) [124518] Re: Antenna help.
by WE7X@aol.com
- 60) [124519] Mountain-mounted Antennas for Field Days
by "Karl Kanalz" <kkanalz@gcecispc.com>
- 61) [124520] Re: seeking SMT parts
by "Brad Hernlem" <alihernlem@hotmail.com>
- 62) [124521] RE: End of QRP?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 63) [124522] Re: Cutting PCB Material
by "Dan Hogan" <dhhogan1@earthlink.net>
- 64) [124523] Re: End of QRP
by Junichi Nakajima <nakaji@crl.go.jp>
- 65) [124524] Re: End of QRP?
by "John J. McDonough" <wb8rcr@arrl.net>
- 66) [124525] National HRO RX and coilpacks
by euramcom pages <mel@euramcom.freemove.co.uk>

- 67) [124526] QST
by "Brian Murrey" <brian@iquest.net>
- 68) [124527] RE: End of QRP?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 69) [124528] Re: End of QRP?
by Steven Weber <kd1jv@moose.ncia.net>
- 70) [124529] Re: QST
by Dave Sjolín <sjolin@swbell.net>
- 71) [124530] RE: End of QRP
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 72) [124531] Re: Mountain-mounted Antennas for Field Days
by "George, W5YR" <w5yr@att.net>
- 73) [124532] Refunds sent
by Caitlyn Martin <caitlynmaire@earthlink.net>
- 74) [124533] Re: Refunds sent
by "George, W5YR" <w5yr@att.net>
- 75) [124534] Re: Refunds sent
by "John Dorson" <jdorson@Worldshare.net>
- 76) [124535] RE: QST delivery
by "Karl Kanalz" <kkanalz@gcecisp.com>
- 77) [124536] Re: seeking SMT parts
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
- 78) [124537] HF Band interference?
by "Karl F. Larsen" <k5di@zianet.com>
- 79) [124538] Re: Refunds sent
by "John L. Sielke" <w2agn@w2agn.net>
- 80) [124539] Re: Refunds sent
by "KU4YP" <ku4yp@earthlink.net>
- 81) [124540] Re: AOL 7.0 Tin Project?
by Steve Smith <sigcom@juno.com>
- 82) [124541] Re: End of QRP?
by Dave Hottell <hottell@gulftel.com>
- 83) [124542] RE: End of QRP?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 84) [124543] Re: Refunds sent
by "w6toy" <w6toy@erols.com>
- 85) [124544] Re: End of QRP?
by "Mark J. Dulcey" <mark@buttery.org>
- 86) [124545] QRP Spring Fling Tomorrow!
by "K7FD N7SG" <k7fd@hotmail.com>
- 87) [124546] rig sale
by David Heintzleman <pstrdave@kdsi.net>
- 88) [124547] Re: Refunds sent
by "John L. Sielke" <w2agn@w2agn.net>
- 89) [124548] RE: End of QRP?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 90) [124549] Re: QRP Spring Fling Tomorrow!
by "John L. Sielke" <w2agn@w2agn.net>

- 91) [124550] RE: End of QRP?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 92) [124551] Re: End of QRP?
by "John L. Sielke" <w2agn@w2agn.net>
- 93) [124552] QSO Party this weekend
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 94) [124553] Re: End of QRP?
by Dave Sjolín <sjolin@swbell.net>
- 95) [124554] RE: End of QRP?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 96) [124555] SGC 2020 DSP
by "Vincent A. Santis" <vsantis@earthlink.net>
- 97) [124556] RE: End of QRP?
by Dave Hottell <hottell@gulftel.com>
- 98) [124557] AOL Tin
by "Howard Kraus" <K2UD@adelphia.net>
- 99) [124558] Re: HF Band interference?
by Larry Cahoon <lejek@erols.com>
- 100) [124559] RE: End of QRP?
by Larry Cahoon <lejek@erols.com>
- 101) [124560] Re: AOL Tin
by "Brice D. Hornback" <bdh@cyberbound.net>
- 102) [124561] Re: Refunds sent
by euraicom pages <mel@euracom.freemove.co.uk>
- 103) [124562] Re: Cutting PCB Material
by Don <dwittlic@APCI.net>
- 104) [124563] Re: AOL Tin
by "Richard Brummer, K2JQ" <k2jq@rcn.com>
- 105) [124564] Re: Arcane Browsers (was Refunds...)
by "Tim, N9PUZ" <N9PUZ@arrl.net>
- 106) [124565] Re: HF Band interference?
by "M.J.Powell" <mike@pickmere.demon.co.uk>
- 107) [124566] RE: End of QRP?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 108) [124567] DX on 28.450
by "Karl F. Larsen" <k5di@zianet.com>
- 109) [124568] Re: Arcane Browsers (was Refunds...)
by "Mike Yetsko" <myetsko@insydesw.com>
- 110) [124569] Re: Arcane Browsers (was Refunds...)
by "John_Evans" <jaevas@codenet.net>
- 111) [124570] Re: DX on 28.450
by "John L. Sielke" <w2agn@w2agn.net>
- 112) [124571] Re: Arcane Browsers (was Refunds...)
by "John L. Sielke" <w2agn@w2agn.net>
- 113) [124572] Re: Arcane Browsers (was Refunds...)
by "Mike Yetsko" <myetsko@insydesw.com>
-

Date: Thu, 11 Apr 2002 16:08:13 -0700
From: "blinn" <blinn@smgazette.com>
To: <radioham@gmx.co.uk>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [124460] Re: Cutting PCB Material
Message-ID: <019a01c1e1ad\$c2ed2dc0\$7d8aa242@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Ray Goff <radioham@gmx.co.uk>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Thursday, April 11, 2002 3:33 PM
Subject: RE: Cutting PCB Material

>I have used a small table top circular saw designed for cutting ceramic

Hi all,

The above suggestion from Ray seems to have merit! I'll be looking for one of those gadgets!

I too, have gone through the dilemma of, "how do you cut the darned stuff?" Well, after wearing out half dozen or so blades for the scroll/jig saw, and trying the scoring method, I've settled on using a pair of tin snips. The snips cut it well but leaves a warp, which can be straightened by hand. Hmm... I'll bet one of those Home Depot places, or Lowes, will have one of those ceramic saws?

Regards, Bill - WA7TQK

--

Date: Thu, 11 Apr 2002 16:13:14 -0700
From: "Kory Hamzeh" <kory@avatar.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [124461] RE: Cutting PCB Material
Message-ID: <003301c1e1ae\$750e11e0\$14ce21c7@avatar.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks you, everyone, for you suggestions. The stuff I bought is Fr4
Garolite, which is a little tough to cut. But it is only 1/16" thick.

73,
Kory
AC6RN

--

Kory Hamzeh
ICQ # 133630494
<http://www.avatar.com/>
<http://www.metaphysical-store.com/>

Date: Thu, 11 Apr 2002 19:24:16 -0400
From: "John P. Cummins, Sr." <jpcummins@charter.net>
To: noga <nogaqrp@mailman.qth.net>, qrp-l@lehigh.edu
Subject: [124462] QST QRP Article error
Message-ID: <3CB61B20.E7F4EAE4@charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Rich Arland's column in QST this month references a product that is
available from the North Georgia QRP Club. (It is also available from
QRP-ARCI).

Rich has the prices of the 2 items mentioned reversed. The NoGa web
pages have the correct descriptions and prices of it's products. check
out:

<http://www.nogaqrp.org>

Pickett, AD4S

Date: Thu, 11 Apr 2002 16:29:44 -0700
From: "bob baxter" <rbaxter@cybertrails.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [124463] Re: Cutting PCB Material

Message-ID: <008b01c1e1b0\$c4e4b0a0\$cf142aa2@bobbaxte>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Kory,
A Dremel tool with a cut off blade works for me but I guess that's
because I have one.

Bob Baxter AA7EQ
Bisbee, Az.

>
> Hi Everyone,
>
> I ended up order a 24" x 36" PCB for \$29.00. Not a great price, but I
can
> cut the boards to the size that I want. Now, I remember reading
something on
> this list a while back about scoring the PCB with a sharp knife and
then
> just breaking the board at the scored mark. I did a web search and
didn't
> find anything. I wonder if that is a procedure that works well. I do
have a
> hand held radial saw that I can use as a last resort, if need be. I
don't
> have a metal shear or one of those heavy duty paper cutting
tables/blade
> thingies.
>
> 73,
> Kory
> AC6RN
>
> --
> Kory Hamzeh
> ICQ # 133630494
> <http://www.avatar.com/>
> <http://www.metaphysical-store.com/>
>
>

Date: Thu, 11 Apr 2002 17:37:40 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Bill Coleman <aa4lr@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124464] Re: Antennas for Field Days
Message-ID: <Pine.LNX.4.44.0204111734370.2647-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The best antenna for field day is a multi element beam for all bands at 125 feet. The beam is on 2 grider type booms that are 75 feet long. This whole thing is on a mountain that is 11,000 feet above sea level.

On Thu, 11 Apr 2002, Bill Coleman wrote:

> On 3/25/02 9:15 PM, George, W5YR at w5yr@att.net wrote:
>
> >Stuart has the right idea: broad azimuthal coverage with mostly high
> >vertical angle capability and some low-angle coverage. A modest signal
> >"everywhere" earns more points overall than a super signal in just a few
> >places.
>
> I think also that ideal antennas for Field Day will vary depending on
> your geographic location.
>
> For example, what works well in Florida or Southern California may not be
> appropriate in Kansas or Pennsylvania. Azimuths and angles are going to
> be different in different areas of the continent.
>
> Big scores are going to be predicated on getting a good signal into the
> high-population areas of the US/Canada. There are no multipliers for
> sections worked, so rate is King.
>
> Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
> Quote: "Not within a thousand years will man ever fly!"
> -- Wilbur Wright, 1901
>
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
http://www.zianet.com/k5di/

Date: Wed, 10 Apr 2002 16:08:16 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Ed Tanton <n4xy@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124465] Re: FW: [Lowfer] Triflier Core Winding
Message-ID: <Pine.LNX.4.44.0204101603280.3416-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=ISO-8859-1
Content-Transfer-Encoding: 8BIT

The main reason for triflier windings is to confuse the winder, and then prove that he has 3 kinds of wire of different color. A Triflier winding made of the exact same wire is worthless. At least you have to put tags on every wire. And if it's double balanced mixer your making, how you hook up the ends is very important.

It is the inter-wiring coupling that makes this a good way to do things.

On Wed, 10 Apr 2002, Ed Tanton wrote:

> Although this originated on [Lowfer], I think Frank's results are well
> worth publishing here... since this answers a question I have had for
> some time about wideband transformer winding methods.
>
> 73 Ed Tanton N4XY <n4xy@arrl.net>
>
> Ed Tanton N4XY
> 189 Pioneer Trail
> Marietta, GA 30068-3466
>
> website: <http://www.n4xy.com>
>
> All emails <IN> & <OUT> checked by
> Norton AntiVirus with AutoProtect
>
> LM: ARRL QCWA AMSAT & INDEXA;
> SEDXC NCDXA GACW QRP-ARCI
> OK-QRP QRP-L #758 K2 (FT) #00057
>
>
> -----Original Message-----
> From: lowfer-admin@mailman.qth.net [mailto:lowfer-admin@mailman.qth.net]
> On Behalf Of Frank Gentges K BRA
> Sent: Wednesday, April 10, 2002 10:18 AM
> To: lowfer@mailman.qth.net; lowfer@mailman.qth.net

> Subject: Re: [Lowfer] Triflier Core Winding
>
>
> Peter,
>
> I built two wideband transformers just the same except one was trifilar
> and
> the other was just 3 separate windings. The one with separate windings
> went from 10 kHz to 10 MHz. The trifilar one went from 10 kHz to 30
> MHz.
>
> I concluded that the trifilar, or bifilar for that matter, got the
> windings
> more closely coupled and reduced the leakage reactance between them and
> extended the top end of a wideband transformer about 1.5 times.
>
> Frank K0BRA
>
> At 09:01 AM 4/10/02 -0500, Peter Barick wrote:
> >Loafers,
> >
> >I'm trying in vain to find information on the practice of "trifiler"
> >winding, as used on a ferrite core.
> >
> >Why is it used? It seems to be a similar in style to Litz wire, the
> >forming of a twisted 3-wire conductor and wrapping it on the core,
> >where all like ends are tied together. This technique is new for me.
> >I've seen it where the three comprised both input and output windings,
> >however.
> >
> >I don't think it's to increase current cap., as the ref. I have is for
> >receiving apps. Then could it be for flexibility for winging on a small
>
> >core? Don't think that's it. Stumped.
> >
> >Does anyone know of a forum better able to answer this question?
> >
> >Peter
> >
> >
> >-----
> >Lowfer mailing list
> >Lowfer@mailman.qth.net <http://mailman.qth.net/mailman/listinfo/lowfer>
>
> Frank Gentges K BRA
> <fgentges@mindspring.com>
> LF web site at <<http://www.amrad.org/projects/lf>>
>

> -----
> Lowfer mailing list
> Lowfer@mailman.qth.net <http://mailman.qth.net/mailman/listinfo/lowfer>
>
>
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Thu, 11 Apr 2002 23:35:12 +0000
From: "Delbert Long" <ad6we@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [124466] R.F. Probe
Message-ID: <F151iyAphwFutJLt0sJ0001527f@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I have long known that an R.F. Probe would be a useful thing to have around the shack, but never did anything about it until now. Found a great article online:

<http://www.io.com/~n5fc/rfprobe1.htm>

I would be delighted to share my version with anyone interested, unfortunately, I don't have a page to post it on myself, and I don't think posting attachments is appropriate here.

Del, AD6WE

Chat with friends online, try MSN Messenger: <http://messenger.msn.com>

Date: Thu, 11 Apr 2002 19:37:27 EDT
From: n5ib@juno.com
To: qrp-1@Lehigh.edu
Subject: [124467] Re: Cutting PCB Material
Message-ID: <20020411.173115.10175.0.n5ib@juno.com>

On Thu, 11 Apr 2002 15:58:35 -0700 Conrad Weiss <radman@best.com> writes:
>Epoxy board generally has glass fillaments that are integral to its
strength
>and dull conventional steel blades/saws quickly.

We keep a couple of "old and dull" band saw blades handy near the bandsaw in our student shop. On pain of being the recipeint of "The Lecture" by the master machinist who oversees the place, users are instructed to put one of the old blades on before cutting epoxy/glass boards.

Turns out a sharp blade isn't really needed, as it's as much a friction cut as anything. An old blade that is useless for aluminim or brass will still cut even 1/4" G-10 material easily.

So next time you put a new blade on your saw, save the old one for PC board work.

Of course, right next to the bandsaw in that shop is a 4 foot wide shear that makes short work of the 1/16" stuff :^))

72
Jim N5IB

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<http://dl.www.juno.com/get/web/>.

Date: Thu, 11 Apr 2002 19:39:02 +0000
From: ve3ab@mail.mondenet.com
To: qrp-1@Lehigh.edu
Subject: [124468] you can use a set of snips to cut PCB material
Message-ID: <200204112338.g3BNcc129915@genesis.dmz.mondenet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I use tin snips. It does a pretty good job. Id much rather use the paper cutter at the office..but I dont think that would go over to well!! Cutting larger pieces can be a challenge..but with the board being flexible..it can certainly be done. Until I can find a used paper cutter at a good price..ill probably stick to this method.
One good thing its fast!-72 Earl VE3AB

Date: Thu, 11 Apr 2002 17:44:03 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Jim Eshleman <jce0@Lehigh.EDU>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124469] Re: Linda Smith...
Message-ID: <Pine.LNX.4.44.0204111741530.2647-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Jim, I have a lot of good stuff in /dev/null that over the years I have sent there. I think next week I will empty it onto the AGC bus and dump it.

Also just said nuts to her.

On Wed, 10 Apr 2002, Jim Eshleman wrote:

> ...is gone and follow-ups on that thread will go to /dev/null
>
> 73
> Jim N3VXI
>
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
http://www.zianet.com/k5di/

Date: Thu, 11 Apr 2002 19:00:23 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [124470] Radio Receiver Design
Message-ID: <000501c1e1b5\$0b68eb00\$4e100a0a@rohredt2000>

Receiver builders:
RF Global Net, a web magazine, is listing this text book on Receiver Design, by McClaning and Vito. Anyone familiar with it?

<http://www.rfglobalnet.com/Content/ProductShowcase/product.asp?DocID={71EEC449-426C-11D6-A789-00D0B7694F32}>

72,
Stuart K5KVH

Date: Thu, 11 Apr 2002 23:28:19 -0400
From: "Walt Amos" <k8cv@netzero.net>
To: "List Qrp-L" <qrp-l@lehigh.edu>
Subject: [124471] Nor'Easter
Message-ID: <000801c1e1b5\$ff5a4240\$7b95d43f@WALTK8CV>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

LeavesWill it come with an

ANDERSON POWER POLE CONNECTOR :-)

Date: Thu, 11 Apr 2002 19:11:46 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: ad6we@hotmail.com,
 Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124472] Re: R.F. Probe
Message-ID: <003001c1e1b6\$a2710d60\$6501a8c0@lwrnce01.in.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

There is also an RF Probe page on the QRPP-I site under the projects page.
A kit of parts is available if you have trouble finding the right parts.

<http://www.QRPP-I.com>

73/72/71! de Brice KA8MAV

----- Original Message -----
From: "Delbert Long" <ad6we@hotmail.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, April 11, 2002 6:35 PM
Subject: R.F. Probe

> I have long known that an R.F. Probe would be a useful thing to have
> around
> the shack, but never did anything about it until now. Found a great
> article
> online:
>
> <http://www.io.com/~n5fc/rfprobe1.htm>
>
> I would be delighted to share my version with anyone interested,
> unfortunately, I don't have a page to post it on myself, and I don't think
> posting attachments is appropriate here.
>
> Del, AD6WE
>
>
> -----
> Chat with friends online, try MSN Messenger: <http://messenger.msn.com>
>

Date: Thu, 11 Apr 2002 17:19:10 -0700 (PDT)
From: Jim Durkin <jimdurkin@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [124473] What to look for in external speaker?
Message-ID: <20020412001910.46868.qmail@web13003.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Are there any particular things to look for in buying
an external speaker. Will be using it for CW for a TS
570D.
Tnx and 73
Jim kt4a

Do You Yahoo!?
Yahoo! Tax Center - online filing with TurboTax
<http://taxes.yahoo.com/>

Date: Thu, 11 Apr 2002 19:21:27 -0500

From: "Michael Melland" <w9wis@charter.net>
To: <ARDUJENSKI@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [124474] Re: Last Posting: FS/FT QRP+/COMPANION/TT-1202/MIC
Message-ID: <003b01c1e1b7\$fca4ad40\$a323be42@computer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> COMPANION: I believe it is called a matching L network. The circuit design
is
> based upon an article published in QST November 1992 pg 51. It uses a
built
> in noise bridge to tune (you tune for null). The Companion comes in a
> matching cube enclosure similar to the QRP Plus with front leg. It has a
very
> wide matching range. It can be used for balanced, unbalanced, and single
wire
> antennas. I have used this on 160-10m with a variety of portable antennas.
> YOU CAN SEE A PICTURE OF WHAT THE COMPANION LOOKS LIKE AT THE WEB SITE.The
> fella has the cover off so you get to see a good view of it with the QRP+:
> <http://pages.sbcglobal.net/ko6gf/page3.html>

Don't know Alan but I have a QRP Companion tuner/power supply and it is with
out any doubt the finest qrp tuner I have ever used. I especially like the
sla batter charging circuit and the noise bridge. Makes tune up very easy
and causes no qrm.

Mike, W9WIS

Date: Fri, 12 Apr 2002 00:30:09 +0000
From: Arthur Moe <kb7ww@easystreet.com>
To: qrp <qrp-l@Lehigh.EDU>
Subject: [124475] Antenna help.
Message-ID: <3CB62A91.C4DB17A5@easystreet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

All,

I would like to pick the brains of all the antenna guru's here. I am
trying to get ready for the contest. For the past few years I have used an

non resonant inverted vee fed with 300 ohm line. The length is 90 feet per leg or 180 feet over all. the Apex is at 68 feet and the ends are at about 30 feet. This made a nice all band antenna. Recently I put up an A3S Cushcraft. Now I would like to change out the big inverted vee to something for 40 meters only. Choices inverted vee, 1/2 wave sloper, delta loop or diamond shaped quad. So her is your chance, what would be your choice and why.

Art
KB7WW

Date: Thu, 11 Apr 2002 19:36:13 -0500
From: "George, W5YR" <w5yr@att.net>
To: kb7ww@easystreet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124476] Re: Antenna help.
Message-ID: <3CB62BFD.D391D1FA@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Art, you already have a 40-meter Extended Double Zepp with a couple of feet extra wire on each side, which is immaterial. I wouldn't change a thing. You are getting most of 3 db gain broadside over a resonant dipole. Run the setup through EZNEC and see what you have! <:}

73/72/00, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

All outgoing email virus-checked by Norton Anti-Virus 2002

Arthur Moe wrote:

>
> All,
>
> I would like to pick the brains of all the antenna guru's here. I am
> trying to get ready for the contest. For the past few years I have used an
> non resonant inverted vee fed with 300 ohm line. The length is 90 feet per
> leg or 180 feet over all. the Apex is at 68 feet and the ends are at about
> 30 feet. This made a nice all band antenna. Recently I put up an A3S
> Cushcraft. Now I would like to change out the big inverted vee to something

> for 40 meters only. Choices inverted vee, 1/2 wave sloper, delta loop or
> diamond shaped quad. So here is your chance, what would be your choice
> and why.

Date: Thu, 11 Apr 2002 20:45:24 -0400
From: Russ Hines <wb8zcc@one.net>
To: kory@avatar.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124477] Re: Cutting PCB Material
Message-ID: <3CB62E24.4F774F12@one.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I purchased a scroll saw some years ago at a discount, and have found it excellent for cutting PC boards, teflon, nylon, and other assorted small parts.

73,
Russ Hines
WB8ZCC

Kory Hamzeh wrote:

>
> Hi Everyone,
>
> I ended up order a 24" x 36" PCB for \$29.00. Not a great price, but I can
> cut the boards to the size that I want. Now, I remember reading something on
> this list a while back about scoring the PCB with a sharp knife and then
> just breaking the board at the scored mark. I did a web search and didn't
> find anything. I wonder if that is a procedure that works well. I do have a
> hand held radial saw that I can use as a last resort, if need be. I don't
> have a metal shear or one of those heavy duty paper cutting tables/blade
> thingies.
>
> 73,
> Kory
> AC6RN
>
> --
> Kory Hamzeh
> ICQ # 133630494
> <http://www.avatar.com/>
> <http://www.metaphysical-store.com/>

Date: Thu, 11 Apr 2002 19:44:14 -0500
From: <mgoins@usa.net>
To: <qrp-1@lehigh.edu>
Subject: [124478] April issue of QRP Quarterly
Message-ID: <20020412004414.3152.qmail@uwdvg001.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

I know you folks just got your January issue of QRP Quarterly, but I want=ed to
let everyone know that the April issue is now at the printers. It should =be
out no later than mid-May, barring any unforeseen catastrophes.

Thanks to all for the understanding, the welcoming emails, and especially=to
those who helped with this issue. Keep us in mind if you have something y=ou
want to share with the low power radio world. =

Finally, you might want to check the status of your subscription at
<<http://www.qrparci.org/lookup.html>>. It's really easy to let it lapse wi=thout
knowing it - I know - I've done it myself in the past. If you are like me=,
you
won't want to miss an issue. =

72/73,

mike
wb5yjx

Date: Thu, 11 Apr 2002 19:49:47 -0500
From: "Karl Kanalz" <kkanalz@gcecispc.com>
To: <w5yr@att.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [124479] RE: Antenna help.
Message-ID: <NFBKOMEFGJGEBABODPOAEAOCBAA.kkanalz@gcecispc.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Even *if* George is close by, I gotta' agree with him! Leave it alone, Art!
An extended dipole on 40M is a real "killer-diller". Just keep using it.

If your air-cooled dummy load (the Cushcraft A3S) is up on a high tower,
then it will do the job for 20M and above, and you can use the tower for a
support of a "half-sloper" for other bands.

In the end, your present dipole will do an admirable job for you. Leave it
just as it is!

Karl K - W8TIF
McKinney, Texas
(just a few miles north of W5YR)

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
George, W5YR
Sent: Thursday, April 11, 2002 7:36 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Antenna help.

Art, you already have a 40-meter Extended Double Zepp with a couple of feet
extra wire on each side, which is immaterial. I wouldn't change a thing.
You are getting most of 3 db gain broadside over a resonant dipole. Run the
setup through EZNEC and see what you have! <:}

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX Arthur Moe wrote:

>
> All,
>
> I would like to pick the brains of all the antenna guru's here. I am
> trying to get ready for the contest. For the past few years I have used
an
> non resonant inverted vee fed with 300 ohm line. The length is 90 feet per
> leg or 180 feet over all. the Apex is at 68 feet and the ends are at about
> 30 feet. This made a nice all band antenna. Recently I put up an A3S
> Cushcraft. Now I would like to change out the big inverted vee to
something
> for 40 meters only. Choices inverted vee, 1/2 wave sloper, delta loop or
> diamond shaped quad. So her is your chance, what would be your choice
> and why.

Date: Thu, 11 Apr 2002 19:50:13 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'kb9zuv@arrl.net'" <kb9zuv@arrl.net>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124480] RE: antenna tuning question
Message-ID: <01C1E192.19541460.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hmmm ... all the antenna experts must be recovering from their QRP conventions.

Your antenna is weird enough that no one is going to have a "rule of thumb" for it.

I'd say:

1. Use an analyzer like EZNEC to figure its feedpoint impedance and then maybe figure how to adjust it for 80. You could use a Smith chart (yikes!) or an equation set up on a spreadsheet to see what length of coax would put the rig end Z into the range of your antenna tuner.
2. Try varying the length of your coax. Add about 40 to 65 feet and see what happens.
3. If you can, change the length of the 90 foot sloping wire.
4. Measure the rig end impedance with an antenna analyzer (if it's within the meter's range). Would you mind if you had to stick in a box with a series L or C when you work 80/75?

Best of luck & 72--

Nick, WA5BDU

-----Original Message-----

From: Gary Lee [SMTP:kb9zuv@arrl.net]
Sent: Tuesday, April 09, 2002 10:19 PM
To: Low Power Amateur Radio Discussion
Subject: antenna tuning question

I'll describe my station first. Kenwood ts2000 feedin the following antenna.

rg-58 probably around 80 feet feeding a 90 foot sloping wire, one end at the top of a 32 foot steel tower, and the other at about 12 feet in a tree.

The shield of the coax is tied to the tower which is grounded with a single ground rod and short (about 1 foot) piece of #10 stranded wire.

This setup works rather welll on all bands 80 through 10.

I normally have an mfj 971 versatuner in line with this. Tonight I was doing some experiments with the automatic tuner in the kenwood. I took the mfj out of the line, and could tune all bands except 75 and 80 meters. If I could get these to tune, I could move the tuner to the bedroom and run some coax in there for the insomniac qrp station. Is there anything I can do to this antenna setup to get 75 and 80 to load up without buying another tuner? And if not, recomendations for a better tuner or is this a good enough one to buy a second one.

I have never run the kw at its full 100 watts, and my highest power would be if I started using the atlas again which is rated at "200 watts input power"

Thanks for any help. Its finally getting warm, and I'm getting the itch to play with antennas again.

Gary Lee
kb9zuv

Date: Fri, 12 Apr 2002 00:59:51 +0000
From: kb1dxc <kb1dxc@discovernet.net>
To: qrp-l@Lehigh.EDU
Subject: [124481] Neet Looking Tins
Message-ID: <a05100305b8dbe07c9028@[216.221.137.143]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Hello All,

I have found a web site with some very nice looking tins. Unfortunately there are no dimentions for them. They are designed as tobacco tins and come in one ounce and two ounce sizes. They outfit seems to be in the UK. The prices do not seem too bad, but I hesitate to order any without knowing the dimentions. If somebody is daring and does not mind throwing a few bucks out there to get an interesting tin, I am sure others like myself would like to know more about them. You get to the page through the following link:

http://www.pazyryk.co.uk/Pazyryk_Limited_Tobacco_Accessories_1.html

You will have to work your way over to the tins. I could not supply an exact address to them because the web site is set up with some wierd Java stuff. In any event, they are worth taking a look at if interesting tins excite you.

Mike
KB1DXC

Date: Thu, 11 Apr 2002 19:57:20 -0500
From: "Gordon Couger" <gcouger@provalue.net>
To: <kb7ww@easystreet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [124482] Re: Antenna help.
Message-ID: <1cb701c1e1bd\$00542e70\$ab2dccd0@home>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A diamond quad or delta loop with two switchable feed points one for vertical and one for horizontal radiation might be worth looking at. I would look at models fed at the apex compared to being fed at the bottom as well. If you can get most of your horizontal radiation at the top of the antenna it should do much better than your current mostly vertical radiating inverted V in some conditions.

In the case of the delta loop that would probably require that the horizontal part of the loop be at the top of the tower for best results with horizontal radiation and that is mechanically a difficult problem.

The loops should be quieter as well.

I don't remember the polarization of diamond quads fed at different points. I think one corner should have considerably more horizontal radiation than the other.

I need to upgrade my Eznec to run on XP or I would run it for you.

If you want to take the effort to get 3 phased slopers to work they should do well on DX. Getting the phasing to actually work is not easy.

Gordon W5RED

From: "Arthur Moe" <kb7ww@easystreet.com>

: I would like to pick the brains of all the antenna guru's here. I am
: trying to get ready for the contest. For the past few years I have used
an
: non resonant inverted vee fed with 300 ohm line. The length is 90 feet per
: leg or 180 feet over all. the Apex is at 68 feet and the ends are at about
: 30 feet. This made a nice all band antenna. Recently I put up an A3S
: Cushcraft. Now I would like to change out the big inverted vee to
something
: for 40 meters only. Choices inverted vee, 1/2 wave sloper, delta loop or
: diamond shaped quad. So her is your chance, what would be your choice
: and why.
:
: Art
: KB7WW
:
:

Date: Thu, 11 Apr 2002 20:58:48 -0400
From: "Randall M. Payne" <payner1@strato.net>
To: qrp-l@Lehigh.EDU
Subject: [124483] DDS VFO
Message-ID: <720IDCEA4WC8XW82MG3XWQ242WRYXH.3cb63148@x4r1i9>
MIME-Version: 1.0
Content-Type: text/plain; charset="windows-1252"

Trev the project looks great. Looks like just the thing for the R2/T2 that I'm
dreaming about building. Looking forward to the completion of your project so we
can find about the kit.

Randy
K4EZM

Date: Thu, 11 Apr 2002 21:34:33 -0400
From: John Wagner <john@wagner-usa.net>
To: <qrp-l@lehigh.edu>
Subject: [124484] seeking SMT parts
Message-ID: <B8DBB1E8.1AF0%john@wagner-usa.net>

Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Howdy Gang,

I am seeking the following SMT parts in small quantities (say 5 or 10). I would like to trade for similiar quantities of what I have, or buy them outright - whatever works for you. I'm trying to build my next 2n2-40+ with as many SMT parts as possible. I figured I would try the list first before going to a commercial source.

Here is what I need:

SMT Parts Needed

Resistors:

1.5k
1.6k
10k
15k
2.2 ohm
2.7K
220K
27 ohm
270 ohm
33 ohm
330 ohm
390 ohm
39k
47 ohm
47k
560 ohm
6.8k
68 ohm
680 ohm

Caps:

.082pf
330pf
390pf
3pf
47pf
120pf
180pf

Chokes:

39uH
12uH

Here is what I have:

Resistors: 560K, 100K, 1K, 2.2meg, 5.6K, 100, 2.2K, 31, 33K, 10, 470, 47k, 150, 1.8k

Caps: .22uF, .022uF, .01uF, .0018uF, .33uF, .001uF, .047uF, .1uF, 680pF, 10uF, 470pF, 100pF, 100pF, 220pF, 4.7uF

Chokes: 4.7uH

I also have a good supply of BC847B NPN's to sweeten the deal.

I don't have a large supply of the resistors/caps and chokes left, hence the request to trade small quantities. I prefer 1206 size parts (who doesn't?!) but smaller, say 2016 [0804] are OK) Thanks in advance,

73,

John, N1QO

Date: Thu, 11 Apr 2002 19:37:10 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <kb9zuv@arrl.net>, qrp-l <qrp-l@lehigh.edu>
Subject: [124485] Re: antenna tuning question
Message-ID: <B8DB9666.13D09%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Gary - It is difficult to answer these questions without knowing what the feed point impedance of the antenna is.

Having said that, I am concerned about you feeding a non resonant antenna with that much RG-58, especially on the higher bands. You may be getting a good match due to the loss in the coax. On 10 M, 80 ft of RG-58 will have a loss of about 2 dB. If the SWR is high, the loss will go up. If the SWR is 6:1, the added loss will be another 2 dB, resulting in 4 dB total loss. Since 90 feet is a roughly a multiple of a half wavelength on 10 Meters, I suspect that the SWR is much higher.

I am not familiar with the antenna tuner of the TS-2000, but most automatic antenna tuners in rigs have a matching SWR range of about 3 or 4 :1. With a 4 dB feed line loss, the SWR at the tuner will be less than 2.5:1 even for antenna SWRs up to 100:1 !!

On 75 M the loss is only 0.6 dB. The added line loss from high SWR is not as much and so the apparent SWR seen by the rig is higher and you have problems getting a match. The antenna is performing better so it is harder to match. An apparent paradox.

All of this is from the transmission line chapter of the Handbook. I have my 1993 copy near the computer.

What does this mean? Well, you are losing a lot of your power in your feed line. In return you get an SWR that your auto tuner can match. Is this a good trade? Only you can decide that. I think I would change things.

There are two problems. One is the feed line loss, and one is the desire to have the internal tuner tune all bands. You can change the feed line to RG-213, 7/8th inch Cable TV cable or ladder line to reduce losses. All of these will probably require a tuner.

You could change the configuration of the antenna so that it is resonant on several bands. You can do this by adding traps or additional wires that resonate on several bands. If you want some hints in this direction, let me know.

Let us know what you end up doing. - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
Cedar Crest, NM DM65

Date: Thu, 11 Apr 2002 20:53:58 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <kf4yyd@adelphia.net>
Cc: <qrp-1@Lehigh.EDU>
Subject: [124486] PC Board materials
Message-ID: <02a901c1e1c4\$e94f9130\$4e100a0a@rohredt2000>

Tom,
Radio Shack boards are phenolic which is brittle, other commercial boards that are green/blue are FR 4 fiberglass but hand shears is not what you use, you have to have a bench shear which looks like a guillotine. Maybe Harbor Freight has one cheap enough for home use. Good ones are pricey unless you find a used machine shop sale.
72,
Stuart K5KVH

Date: Thu, 11 Apr 2002 20:56:27 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [124487] Shearing printed circuit boards?
Message-ID: <02b101c1e1c5\$42448c00\$4e100a0a@rohredt2000>

How about those tile cutters from the Home center stores like Home Depot?
Has anyone tried pcb stock on them? Of course, the size you could shear,
(width) will be limited, but if you build only QRP---maybe OK?
Stuart K5KVH

Date: Thu, 11 Apr 2002 20:03:24 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <kb7ww@easystreet.com>, qrp-1 <qrp-1@lehigh.edu>
Subject: [124488] Re: Antenna help.
Message-ID: <B8DB9C8B.13D0B%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Art - I would put up a 40 M inverted vee with the apex at the same height.
In my opinion, this will be better than your present inverted vee because
the high current point is at the apex, while with the present antenna they
are part way down the wire. The higher current points will result in a
slightly lower angle of radiation, and less high angle radiation. If you
have access to a simple modeling program you can quickly model each and
compare them.

Antennas longer than a half wavelength when erected as an inverted vee
seldom show the directivity that one expects when they are erected
horizontally. Again some modeling will show this.

If you have another 68 ft or so support 70 ft from the tower, you might try
putting up a horizontal 40 M dipole.

Another alternative is to erect a rotatable inverted vee. Erect a
lightweight 20 ft mast above the A3 that rotates with the A-3. Extend the
boom of the A3 on each end with 20 ft fiberglass fishing poles like the
SD-20. Then erect the inverted vee. It will have directivity perpendicular
to the A3 and a better effective height than the inverted vee at 68 feet.
You could try a 40M/30M trapped inverted vee erected like this to add an

additional band.

You might try shunt feeding the tower/A3 combination on 160 M, 80 M, and 40 M as a vertical. There are some hints in the handbook and antenna book.. You will need a good ground system.

I hope that this helps. Let us know what you decide to do. - Dr. Megacycle
KK6MC/5

--

James R. Duffey KK6MC/5
Cedar Crest, NM DM65

Date: Thu, 11 Apr 2002 22:12:56 EDT
From: NV9Z@aol.com
To: qrp-l@lehigh.edu
Subject: [124489] N0XFE: Good Guy Award
Message-ID: <127.f1b4a38.29e79ca8@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi QRPers!

With all the recent list discussion about equipment purchases gone afoul, I wanted to give some recognition to one of the good guys in our QRP community: Brian Olson N0XFE.

I just purchased a QRP+ from Brian. He actually contacted me in response to a posting I had placed, looking to buy a multi-band, multi-mode QRP rig. He made a deal that was simply too good to pass up. Brian did a super job keeping me posted on the status of our transaction, and shipped very promptly.

I have bought and sold many pieces of equipment via the internet over the last few years. I have never had a transaction go sour. Am I just lucky? I suppose that could be the case, but I would rather think its because we are all members of this wonderful community we call Amateur Radio.

I understand that Brian may be listing some other pieces of equipment for sale in the near future. I would highly recommend him.

72 de Chris Blaase NV9Z QRP-L #2370, QRP-ARCI #11172, NorCal, NW-QRP #347, NJ-QRP #383, HI-QRP #407, AR-QRP #280

Date: Thu, 11 Apr 2002 20:50:58 -0600
From: "John A. Evans - N0HJ" <jaevans@codenet.net>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124490] Q: OT - Surface mount component ID
Message-ID: <3CB64B91.EFA8319E@codenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings,

My Unix PC lost a couple of parts when I opened its case a few days ago - it had been dropped in shipment two years ago when I first received it but we put everything loose back together and it worked fine, until a reboot days ago.

Anyway, the parts are rectangular with a band on one end, labeled 100-10 and K2. The reason I don't wish to use these is that the tabs are broken off one end of each part. (I suspect something rattling around inside did its damage when shipped). Does anyone know where I can go to help ID these guys? I am certain that I can get my system to work again by soldering these back on. Being the dumpster diver I am, I would hate to have to replace the main board for just these two identical parts.

tnx es 72 - john - n0hj

Date: Thu, 11 Apr 2002 23:23:23 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [124491] QRP+/COMPANION SOLD--THANKS
Message-ID: <187.64e7581.29e7ad2b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Thanks for all who responded--

Alan KB7MBI in Woodinville, WA
FISTS 5702 Proud member of ARRL

Date: Thu, 11 Apr 2002 22:31:26 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: NV9Z@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124492] Re: N0XFE: Good Guy Award
Message-ID: <3CB6550E.B96447CB@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

NV9Z@aol.com wrote:

> I have bought and sold many pieces of equipment via the internet over the
> last few years. I have never had a transaction go sour. Am I just lucky? I
> suppose that could be the case, but I would rather think its because we are
> all members of this wonderful community we call Amateur Radio.

I dont think your lucky Chris. I too have never had a transaction go sour over the internet. And I generally ship once I get the address and a firm commitment. I rarely wait for the check. I certainly wouldn't think of doing that on Ebay, especially outside of the Amateur Radio section. It's great to be able to trust your fellow ham.

73 de Dave, N0IT

Date: Thu, 11 Apr 2002 23:49:29 -0400
From: "Ronald Davis" <RDavis24@carolina.rr.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [124493] QRP Items For Sale
Message-ID: <002101c1e1d5\$0cc671a0\$a13e4a18@your318ruqz03z>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello

Have to get rig of some QRP items, please email if interested. I can provide pictures if you need them.

Ten Tec Argonaut 509 in good condition, 210 PS and 208 CW filter. One mod where you can add a digital display. I have a OHR DD-1 Digital Display that works good with it. Manual included. No mic included. \$350

Oak Hills Research OHR-500 QRP CW rig with DD-1 Digital Display and keyer

built in. Rig is in very good shape and works fine. \$325

Drake TR7, PS7 and RV7 with all the options. \$725

Too many rigs and not enough time. Something has to go. Money orders or PayPal. Email if interested.

Thanks

Ronnie

KE4VPN

Date: Thu, 11 Apr 2002 23:06:48 -0600
From: "P.Ermisch" <ermisch@usa.net>
To: <qrp-1@Lehigh.EDU>
Subject: [124494] Re: [Neet Looking Tins]
Message-ID: <20020412050648.12815.qmail@uwdvg001.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Cool looking boxes. For that matter, just search for 'tins' on eBay...

kb1dxc <kb1dxc@discovernet.net> wrote:

> Hello All,
> =

> I have found a web site with some very nice looking tins. =

> Unfortunately there are no dimentions for them. They are designed as =

> tobacco tins and come in one ounce and two once sizes. They outfit =

> seems to be in the UK. The prices do not seem too bad, but I hesitate =

> to order any without knowing the dimentions. If somebody is daring =

> and does not mind throwing a few bucks out there to get an =

> interesting tin, I am sure others like myself would like to know more =

> about them. You get to the page through the following link:
> =

> http://www.pazyryk.co.uk/Pazyryk_Limited_Tobacco_Accessories_1.html
> =

> You will have to work your way over to the tins. I could not =
> supply an exact address to them because the web site is set up with =
> some wierd Java stuff. In any event, they are worth taking a look at =
> if interesting tins excite you.
> =

> Mike
> KB1DXC

Date: Fri, 12 Apr 2002 03:16:44 +1000
From: "Graeme Zimmer" <gzimmer@bigpond.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [124495] End of QRP?
Message-ID: <009701c1e17d\$50c78860\$881836cb@newlaptop>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Recently I posted a note about the threat to our hobby from the HomePlug
Power Mains communication system.
I was saddened to see only one reply.

So I thought I'd have just one more try. Here is a summary:

The system transmits data on the mains wiring using hundreds of broad-band
carriers in the HF band. The modems put out a relatively high signal level.
Around 100 mW it seems.

Can you image a 100mW broad band noise source in the next room?
Can you imagine the signal being piped into your house on your mains
cabling?
Can you imagine tens of thousands of them around the country?

The BBC calculates that the signal level is around 50db higher than the
European Conducted Emission limits.

This level even exceeds the European immunity test level. As this is a very
stringent test by USA standards, the level will certainly be high enough to
directly affect a large number of appliances !

The calculated interference level are awesome. It will be so high for some SWLs that even outside antennas will be useless even for strong SW stations.

The really scary bit is that around large centers the effects will extend out to 100 Km or so.

The interference will actually be bad enough to effect ships at sea and even aircraft.

To put this in perspective, a friend of mine (here in Australia) has been doing low power tests in the 13 MHz ISM "junk band"

With around 1 mW output, his best distance reception has been 16,300 kms. He is frequently heard in USA.

These Home plug modems are putting out one hundred times that power level (and there will be tens of thousands of them). In other words, it is likely that

Modems in USA will cause significant radio interference in Australia !!!!

I hope that we can manage to get them banned.

What can you do ?

Firstly read these documents.....

http://www.qsl.net/rsgb_emc/emcplc.pdf

<http://www.bbc.co.uk/rd/pubs/papers/pdf/files/hf2000jhs.pdf>

<http://www.bbc.co.uk/rd/pubs/whp/whp-pdf-files/WHP012.pdf>

Then write to

Tom Cantrell

twc@charter.net

West Coast Editor

Circuit Cellar Magazine

He has just written a glowing review of the HomePlug system, but seems to have absolutely no idea of how important the HF spectrum is world wide. He seems to think that HF is now superseded and should be reallocated.

Anyway, it is one tiny chance for us to be heard by someone with some influence.

And please don't bother writing to me. I am already aware of the issue.

Write instead to Tom.

Tell him how much you enjoy your hobby (both QRP and SWL) and how much you dread this system coming to a house near you, sometime soon.

Thanks for listening Zim VK3GJZ

Date: Thu, 11 Apr 2002 22:32:03 -0700
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [124496] Re: End of QRP?
Message-ID: <009f01c1e1e3\$6377b5a0\$039cb2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

So what's the real deal here? Does Circuit Cellar Mag have that High of an influence with the FCC? What the heck is this guy talking about anyway? X10??? Very curious here in Burbank...Hmm HF over the power lines ...OK...

73's
Trev
KG6CYN

----- Original Message -----

From: Graeme Zimmer <gzimmer@bigpond.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Thursday, April 11, 2002 10:16 AM
Subject: End of QRP?

> Recently I posted a note about the threat to our hobby from the HomePlug
> Power Mains communication system.
> I was saddened to see only one reply.
>
> So I thought I'd have just one more try. Here is a summary:
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> Around 100 mW it seems.
>

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> Can you imagine the signal being piped into your house on your mains
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> Can you imagine tens of thousands of them around the country?
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>
> This level even exceeds the European immunity test level. As this is a
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> directly affect a large number of appliances !
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> With around 1 mW output, his best distance reception has been 16,300
kms. He
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> (and there will be tens of thousands of them). In other words, it is
likely
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> Modems in USA will cause significant radio interference in Australia
!!!!
>
> I hope that we can manage to get them banned.
>
> What can you do ?
>
> Firstly read these documents.....

> <http://www.qsl.net/rs.gb/emc/emcplc.pdf>
> <http://www.bbc.co.uk/rd/pubs/papers/pdf/files/hf2000jhs.pdf>
> <http://www.bbc.co.uk/rd/pubs/whp/whp-pdf-files/WHP012.pdf>
>
> Then write to
> Tom Cantrell
> twc@charter.net
> West Coast Editor
> Circuit Cellar Magazine
>
> He has just written a glowing review of the HomePlug system, but seems
to
> have absolutely no idea of how important the HF spectrum is world
wide. He
> seems to think that HF is now superseded and should be reallocated.
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> Anyway, it is one tiny chance for us to be heard by someone with some
> influence.
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> And please don't bother writing to me. I am already aware of the
issue.
> Write instead to Tom.
> Tell him how much you enjoy your hobby (both QRP and SWL) and how much
you
> dread this system coming to a house near you, sometime soon.
>
> Thanks for listening Zim VK3GJZ
>
>
>
>
>
>
>
>
>
>

Date: Fri, 12 Apr 2002 00:41:09 -0700
From: "Alan Kaul" <alan.kaul@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [124497] OT- BBC Radio SW broadcasts
Message-ID: <000601c1e1f5\$6cbac0a0\$af25cd18@charterpipeline.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

There's a group which has formed to save the BBC SW broadcasts to NA and Pacific. The following website has a list of resources and suggestions!
<http://www.savebbc.org/>

Alan Kaul, W6RCL, LaCanada, CA
w6rcl@amsat.org
<http://home.att.net/~alan.kaul/index.html>

Date: Fri, 12 Apr 2002 09:12:34 +0100
From: "Jack Bennett" <J.Bennett@lboro.ac.uk>
To: <jaevans@codenet.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [124498] Re: OT - Surface mount component ID
Message-ID: <00a401c1e1f9\$cd5b8d00\$98327d9e@pc2000e1jb5>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi John,

Try G4PMK's SMD Codebook at <http://www.marsport.demon.co.uk/smd/smdcode.htm>

I hope you find this of some help.

Cheers,

Jack
G3PVG

----- Original Message -----

From: "John A. Evans - N0HJ" <jaevans@codenet.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, April 12, 2002 3:50 AM
Subject: Q: OT - Surface mount component ID

> Greetings,

>

> My Unix PC lost a couple of parts when I opened its case a few days
> ago - it had been dropped in shipment two years ago when I first
> received it but we put everything loose back together and it worked
> fine, until a reboot days ago.

>
> Anyway, the parts are rectangular with a band on one end, labeled
> 100-10 and K2. The reason I don't wish to use these is that the
> tabs are broken off one end of each part. (I suspect something
> rattling around inside did its damage when shipped). Does anyone
> know where I can go to help ID these guys? I am certain that I can
> get my system to work again by soldering these back on. Being the
> dumpster diver I am, I would hate to have to replace the main board
> for just these two identical parts.
>
> tnx es 72 - john - n0hj
>
>
>
>

Date: Fri, 12 Apr 2002 01:13:36 -0700
From: "Dave Fifield" <dave@redhotradio.com>
To: <sigcom@juno.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [124499] Re: AOL 7.0 Tin Project?
Message-ID: <00ed01c1e1f9\$f241f640\$0200a8c0@AD6A>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Steve et al,

I was just pulling an wornout Motorola V-phone battery apart this
afternoon to see what was wrong with it. It's a 3.6V 480mAh
Panasonic Li-Ion cell, very thin. There's a whole ton of
electronics in with the battery too (charge control). I think
a rig could be made to work on just one of these cells quite
easily. I'm thinking about it....

Cheers es 72,
Dave Fifield, AD6A

Date: Fri, 12 Apr 2002 06:24:56 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-1@Lehigh.EDU

Subject: [124500] SWL / Nor`Easter Re: Electrically Short Antenna with MUCH Better Efficiency
Message-ID: <20020412.062507.-213177.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

. . . it is only intended for RX . . .

John
N3AAZ

From: "w6toy" <w6toy@erols.com>
To: <n3aaz-qrp@juno.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Date: Thu, 11 Apr 2002 12:43:08 -0400
Subject: Re: Electrically Short Antenna with MUCH Better Efficiency

What you are saying is true. But remember this one point, the purpose of the source follower is to match impedances, While the electrically short antenna you describe will work for receiving, IT WILL NOT WORK FOR TRANSMITTING!

From: n3aaz-qrp@juno.com
To: GQRP@yahoogroups.com,qrpp-I@yahoogroups.com,qrp-l@Lehigh.EDU
Date: Mon, 8 Apr 2002 19:11:41 -0400
Subject: Electrically Short Antenna with MUCH Better Efficiency

Design Approach . . .with common HF components. . .

Electrically Short Antenna
(In Some Cases Extremely Short)
for Much MUCH Better Efficiency

>>see qrp-l<< archives for details. . .

With a source follower (#1) in front of any low impedance gain stage (i.e. your receiver). Note one also provides a proven circuit schematic using common HF components; one MPF102, three 2N3904 (same as 2N2222), two 1N914, a few R-s and C-s and one pot.

John
N3AAZ

FM 19 xa

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<http://dl.www.juno.com/get/web/>.

Date: Fri, 12 Apr 2002 07:00:26 -0400

From: "Pastor-KC1DI" <elbc@pivot.net>

To: <kb7ww@easystreet.com>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [124501] Re: Antenna help.

Message-ID: <004c01c1e211\$412bde80\$6ca7ba42@dor>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Arthur Moe" <kb7ww@easystreet.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Thursday, April 11, 2002 8:30 PM

Subject: Antenna help.

> All,

>

> I would like to pick the brains of all the antenna guru's here. I am

> trying to get ready for the contest. For the past few years I have used

> an

> non resonant inverted vee fed with 300 ohm line. The length is 90 feet per

> leg or 180 feet over all. the Apex is at 68 feet and the ends are at about

> 30 feet. This made a nice all band antenna. Recently I put up an A3S

> Cushcraft. Now I would like to change out the big inverted vee to

> something

> for 40 meters only. Choices inverted vee, 1/2 wave sloper, delta loop or

> diamond shaped quad. So her is your chance, what would be your choice

> and why.

>

> Art

> KB7WW

>

George: if it were me I'd opt for the 40mtr. Half wave sloper. If possible
put two of them up at about right angles to each other slop them at 45

degrees from earth. better yet if you already have your bean on a tower use quarter wave slopers fed against the tower. The work great and will give you some directivity.. The Big inverted vee is alright but at 40m will exhibit mostly high angle radiation patterns.

Hope this helps,
73 dave kc1di

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.345 / Virus Database: 193 - Release Date: 4/9/02

Date: Fri, 12 Apr 2002 07:16:58 -0400
From: Haines Brown <brownh@hartford-hwp.com>
To: dhhogan1@earthlink.net
Cc: qrp-1@Lehigh.EDU
Subject: [124502] Re: Cutting PCB Material
Message-ID: <200204121116.g3CBGwd00704@langhans.hartford-hwp.com>

I'm following the thread with interest. It seems that heavy duty shears (or even a paper cutter?) works with thin material, but what if it has more thickness?

Has anyone tried using a power tool such as the Dremel with a cutting bit and a straight edge? There are circular cutters for such a tool, but how would you guide it? Do any of these hand tools have an attachment that lets you use it as a mini-arbor saw? Are there routing or similar bits that could be drawn through the PCB material along a straight edge?

A sabre saw occurred to me, and while a fine blade would cut nicely, my saw has such vibration that working with it seems too challenging.

Haines KB1GRM

Date: Fri, 12 Apr 2002 06:55:21 -0400
From: "W2WU" <w2wurjj@verizon.net>
To: <fxtech@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [124503] QRP DEMISE?

Message-ID: <002701c1e216\$74f5aca0\$71c2fea9@w2wu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The post never made it to this QTH. Influence? Money Talks! 73, Ron W2WU
----- Original Message -----

From: Trevor Jacobs <fxtech@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: 12 April, 2002 01:32
Subject: Re: End of QRP?

> So what's the real deal here? Does Circuit Cellar Mag have that High of
> an influence with the FCC? What the heck is this guy talking about
> anyway? X10??? Very curious here in Burbank...Hmm HF over the power
> lines ...OK...

>

> 73's

> Trev

> KG6CYN

> ----- Original Message -----

> From: Graeme Zimmer <gzimmer@bigpond.com>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Sent: Thursday, April 11, 2002 10:16 AM
> Subject: End of QRP?

>

>

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> > <http://www.bbc.co.uk/rd/pubs/whp/whp-pdf-files/WHP012.pdf>
> >
> > Then write to
> > Tom Cantrell

Tins are of the following approx. sizes:

1oz = 8.5 x 6.5 x 2.3 Centimetres

2oz = 11 x 8 x 2.8 Centimetres

or in Imperial Inches, approx...

1oz = 3 & 1/8 x 2 & 9/16 x 7/8

2oz = 4 & 5/16 x 3 & 1/8 x 1 & 1/8

I hope this helps, but please come back to me if you have any more questions.

With thanks,

Paul.

Date: Fri, 12 Apr 2002 06:26:33 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: kb1dxc <kb1dxc@discovernet.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124505] re: Neet Looking Tins
Message-ID: <Pine.LNX.4.44.0204120625001.2110-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

How are American inches related to Imperial Inches? I do know that about 2.54 CM = American inch.

On Fri, 12 Apr 2002, kb1dxc wrote:

> I sent an email and got the dimensions of those nifty tins, see below.
>
> Mike
> KB1DXC
>
>
> Tins are of the following approx. sizes:
>
> 1oz = 8.5 x 6.5 x 2.3 Centimetres
>
> 2oz = 11 x 8 x 2.8 Centimetres

>
> or in Imperial Inches, approx...
>
> 1oz = 3 & 1/8 x 2 & 9/16 x 7/8
>
> 2oz = 4 & 5/16 x 3 & 1/8 x 1 & 1/8
>
> I hope this helps, but please come back to me if you have any more questions.
>
> With thanks,
>
> Paul.
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Fri, 12 Apr 2002 06:32:25 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Graeme Zimmer <gzimmer@bigpond.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124506] Re: End of QRP?
Message-ID: <Pine.LNX.4.44.0204120630510.2110-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well you requested we e-mail the magazine person so I did. I suspect lots of guys did. You didn't know it.

On Fri, 12 Apr 2002, Graeme Zimmer wrote:

> Recently I posted a note about the threat to our hobby from the HomePlug
> Power Mains communication system.
> I was saddened to see only one reply.
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

<http://www.zianet.com/k5di/>

Date: Fri, 12 Apr 2002 08:58:23 -0400
From: Alex <kr1st@amsat.org>
To: gzimmer@bigpond.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124507] Re: End of QRP?
Message-ID: <3CB6D9EF.2B48F987@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi there,

Graeme Zimmer wrote:

>
> Recently I posted a note about the threat to our hobby from the HomePlug
> Power Mains communication system.
> I was saddened to see only one reply.

Yes, it really is a shame that you received only one reply. This is really an issue we need to be aware of, maybe even more so as QRPers.

Our fellow QRP'er and ARRL Lab Supervisor, Ed Hare, W1RFI is very much involved as a liaison with the industry. Read the article "Inside Your League: The Lab--Part 2 RFI and a Look Around the Lab" at:

<http://www.arrl.org/news/features/2002/02/27/2/>

You can read in the article that because of the involvement of Ed and other members of the ARRL staff, the HomePlug specification now includes protection of the ham bands:

<QUOTE>

Hare represents ARRL on these committees. In addition he maintains a liaison with the FCC, VDSL Committees, Home Phoneline Networking Alliance and HomePlug Powerline Alliance.

This last group, HomePlug, may not be well known to hams, but we should be aware of their existence and the consequences of their work. The HomePlug Powerline Alliance is a not-for-profit corporation formed to create specifications for high-speed home power line networking products. HomePlug devices superimpose HF signals onto the electric wiring. Therefore, a potential for interference exists. As a result of the League's involvement, HomePlug specifications include protection

against interference to the ham bands.
</QUOTE>

73s,
--Alex (KR1ST)

Date: Fri, 12 Apr 2002 09:06:36 -0400
From: Pete Burbank <plburbank@kih.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [124508] Re: Cutting PCB Material
Message-ID: <5.0.2.1.0.20020412081550.00aa4660@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

A sabersaw would work fine and the blades are a lot cheaper than my bandsaw loops.

One technique that I learned from a machinist friend was to clamp thin material to a piece of 1/4 inch pressed wood or ply wood and then clamp all to a stout workbench.

I have never been fond of saber saws but my son gave me a variable speed one that allows

a lot more control. One place I worked had 2 shears for sheet metal that worked well.

The large one would handle a five foot wide board. Of course those things are expensive

and take up a lot of shop room. For the hobbyist, the Wiss type straight cut shears

(sometimes called airplane snips) work well. As far as thickness goes, The True Value

variation easily chops rusty places out of car fenders.

The paper cutter idea has a lot of virtue too and if I ever see one at a good price I will get it.

The only major flaw would be the lack of the hold down bar that machine shop shears

have to prevent skewing during the cut but for limited use a person could easily work out

a clamping method.

I was a prototype tech for about 30 years and my recommendation for homebrew enthusiasts would be to get set up a stout workbench and vise and use hand tools..

After that things just sort of escalate toolwise as you check out garage sales etc.

Happy homebrewing

Pete NV4V

At 07:16 AM 4/12/2002 -0400, Haines Brown wrote:

>I'm following the thread with interest. It seems that heavy duty
>shears (or even a paper cutter?) works with thin material, but what if
>it has more thickness?

>

>Has anyone tried using a power tool such as the Dremel with a cutting
>bit and a straight edge? There are circular cutters for such a tool,
>but how would you guide it? Do any of these hand tools have an
>attachment that lets you use it as a mini-arbor saw? Are there routing
>or similar bits that could be drawn through the PCB material along a
>straight edge?

>

>A sabre saw occurred to me, and while a fine blade would cut nicely,
>my saw has such vibration that working with it seems too challenging.

>

>Haines KB1GRM

Date: Fri, 12 Apr 2002 09:41:34 -0400

From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>

To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>

Cc: "'twc@charter.net'" <twc@charter.net>,

"Bodson, Dennis (Dir, Roanoke)" <dbodson@arrl.org>

Subject: [124509] Re: End of QRP?

Message-ID: <125490A005E3D3118C9C00805FC743CC03391CCB@KAHLESS>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

These technologies are generally known as PLC (power-line communications). There are two types. The devices that operate under the HomePlug specification are designed to network computers in a local area, using a building's electrical wiring as the interconnect. Other PLC technology is known as "access" PLC, intended to provide internet service using utility-owned electrical wiring.

The HomePlug specification is very tightly defined. It operates from 4.0 - 10.0 MHz, at a power level of -50 dBm/Hz. (That is 0.01 microwatts in every Hz of bandwidth. In a typical 2500 Hz bandwidth, the transmitted power will be 25 microwatts.) This is just about at the limit of what the Part 15 rules will permit.

Even more important, the HomePlug specification includes notches in the amateur bands, to a level of lower than -80 dBm/Hz (0.00001 microwatts in each Hz of bandwidth). This is about 30 dB better than what the FCC rules permit. HomePlug did this in a sincere attempt to mitigate widespread harmful interference from the operation of their products. I find it unfortunate that the editor of the article will be getting letters that will not include any of this important information. If every industry took such steps, we would all be quite pleased, I am sure.

The joint ARRL/HomePlug report about the testing that was behind their decision to do this is posted at:

http://www.arrl.org/~ehare/rfi/homeplug/ARRL_HomePlug_Dec_2000.pdf

When ARRL worked with them, we did so under the auspices of a non-disclosure agreement. Now that the specification is finalized, the details that were shared with us in confidence are no longer confidential, so the report was released a couple of months ago. I have an ARRL web-page RFI Update column scheduled on this issue, but have been sidetracked into several interference studies related to the 70-cm RFID/Savi Technologies FCC rulemaking.

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

Subject: End of QRP?
From: Graeme Zimmer (gzimmer@bigpond.com)
Date: Thu Apr 11 2002 - 13:16:44 EDT

Next message: Trevor Jacobs: "Re: End of QRP?"
Previous message: P.Ermisch: "Re: [Neet Looking Tins]"
In reply to: kb1dxc: "Neet Looking Tins"
Next in thread: Trevor Jacobs: "Re: End of QRP?"
Reply: Graeme Zimmer: "End of QRP?"

Recently I posted a note about the threat to our hobby from the HomePlug Power Mains communication system.
I was saddened to see only one reply.

So I thought I'd have just one more try. Here is a summary:

The system transmits data on the mains wiring using hundreds of broad-band carriers in the HF band. The modems put out a relatively high signal level. Around 100 mW it seems.

Can you image a 100mW broad band noise source in the next room?

Can you imagine the signal being piped into your house on your mains cabling?

Can you imagine tens of thousands of them around the country?

The BBC calculates that the signal level is around 50db higher than the European Conducted Emission limits.

This level even exceeds the European immunity test level. As this is a very stringent test by USA standards, the level will certainly be high enough to directly affect a large number of appliances !

The calculated interference level are awesome. It will be so high for some SWLs that even outside antennas will be useless even for strong SW stations.

The really scary bit is that around large centers the effects will extend out to 100 Km or so.

The interference will actually be bad enough to effect ships at sea and even aircraft.

To put this in perspective, a friend of mine (here in Australia) has been doing low power tests in the 13 MHz ISM "junk band"

With around 1 mW output, his best distance reception has been 16,300 kms. He is frequently heard in USA.

These Home plug modems are putting out one hundred times that power level (and there will be tens of thousands of them). In other words, it is likely that

Modems in USA will cause significant radio interference in Australia !!!!

I hope that we can manage to get them banned.

What can you do ?

Firstly read these documents.....

http://www.qsl.net/rsqb_emc/emcplc.pdf

<http://www.bbc.co.uk/rd/pubs/papers/pdf/files/hf2000jhs.pdf>

<http://www.bbc.co.uk/rd/pubs/whp/whp-pdf-files/WHP012.pdf>

Then write to

Tom Cantrell
twc@charter.net
West Coast Editor
Circuit Cellar Magazine

He has just written a glowing review of the HomePlug system, but seems to have absolutely no idea of how important the HF spectrum is world wide. He seems to think that HF is now superseded and should be reallocated.

Anyway, it is one tiny chance for us to be heard by someone with some influence.

And please don't bother writing to me. I am already aware of the issue. Write instead to Tom.
Tell him how much you enjoy your hobby (both QRP and SWL) and how much you dread this system coming to a house near you, sometime soon.

Thanks for listening Zim VK3GJZ

Date: Fri, 12 Apr 2002 08:45:53 -0500
From: David Heintzleman <pstrdave@kdsi.net>
To: kr1st@amsat.org
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124510] Re: End of QRP?
Message-ID: <3CB6E511.6FA480A6@kdsi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

ANOTHER WONDERFUL REASON I BELONG TO THE LEAGUE, EVEN THOUGH I NEVER AGREE WITH EVERYTHING - OVERALL, STILL ONE OF THE BEST INVESTMENTS IN MY HOBBY - Dave K8BBM

Alex wrote:

>
> Hi there,
>
> Graeme Zimmer wrote:
> >
> > Recently I posted a note about the threat to our hobby from the HomePlug
> > Power Mains communication system.
> > I was saddened to see only one reply.
>
> Yes, it really is a shame that you received only one reply. This is
> really an issue we need to be aware of, maybe even more so as QRPers.

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> involved as a liaison with the industry. Read the article "Inside Your
> League: The Lab--Part 2 RFI and a Look Around the Lab" at:
>
> <http://www.arrl.org/news/features/2002/02/27/2/>
>
> You can read in the article that because of the involvement of Ed and
> other members of the ARRL staff, the HomePlug specification now includes
> protection of the ham bands:
>
> <QUOTE>
> Hare represents ARRL on these committees. In addition he maintains a
> liaison with the FCC, VDSL Committees, Home Phoneline Networking
> Alliance and HomePlug Powerline Alliance.
>
> This last group, HomePlug, may not be well known to hams, but we should
> be aware of their existence and the consequences of their work. The
> HomePlug Powerline Alliance is a not-for-profit corporation formed to
> create specifications for high-speed home power line networking
> products. HomePlug devices superimpose HF signals onto the electric
> wiring. Therefore, a potential for interference exists. As a result of
> the League's involvement, HomePlug specifications include protection
> against interference to the ham bands.
> </QUOTE>
>
> 73s,
> --Alex (KR1ST)

Date: Fri, 12 Apr 2002 08:44:40 -0500
From: "John Burnley" <JBurnley@ifmc.org>
To: <qrp-l@lehigh.edu>
Subject: [124511] Info on Ten Tec 1320
Message-ID: <scb69e86.096@iaweb02.ifmc.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline

A young friend of mine is heading off to Australia this summer and=20
wants to try his hand at QRP. He even wants to build the rig he=20
takes 'down under'. I've given him some suggestions on kits and=20
he has decided to build the Ten Tec 1320. I thought I would ask=20
for opinions or experiences from anyone who has built this rig. =20

If you have this rig please drop me a quick note to let me=20

know your opinion/experience. =20

Thanks much in advance.

72, John NU0V =20

Date: Fri, 12 Apr 2002 08:52:46 -0500
From: David Heintzleman <pstrdave@kdsi.net>
To: qrp-L@Lehigh.EDU
Subject: [124512] RIG SALE: TT 515
Message-ID: <3CB6E6AE.B762B30B@kdsi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Shack cleaning, I hardly use this -

TenTec Argonaut 515 - transceiver, 80 - 10 mtr, no WARC, SSB, CW -
very clean, even original antenna plug on rear -
matching power supply, matching 208A cw/notch filter, manual.
I'm digging for paperwork, it was at TenTec about 2 years ago - hardly
used since.
included, a not so good (nonworking) crystal calibrator that matches the
509 argonaut -
- I'm dreaming of a new TenTec, but, with 7 TT in the shack, something
has to go -
\$350 shipped CONUS - certified/mo.
questions?
Dave Heintzleman K8BBM
North Platte, NE

QRP ARCI 6354 QCWA 24662 MI QRP 124 Col QRP 157 FISTS 4293

Date: Fri, 12 Apr 2002 07:52:24 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>
Subject: [124513] info please
Message-ID: <Pine.LNX.4.33.0204120751460.22775-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I need the full names and addresses of the Cheeseheads fox hunt team asap...so I can get the info to Ken to engrave the label for the plaque and also to Mary for the certificates...thank you and congratulations to the CHEESEHEADS!!

Glenn - WE9K
Jerry - N9AW
Rick - NK9G
Lon - W9XU
Jim - WA9TZE

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Fri, 12 Apr 2002 07:59:38 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>
Subject: [124514] looking for.....
Message-ID: <Pine.LNX.4.33.0204120757470.22775-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm looking for WG4S (I think) ...we were going to have a sked last night and 15 minutes before sked time, things changed as in "flat tire"...this station was going to join myself and Earl, VA6RF for the sked...would you please respond to me?...thanks...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Fri, 12 Apr 2002 08:01:43 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>
Subject: [124515] looking for..... (fwd)

Message-ID: <Pine.LNX.4.33.0204120800360.22775-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

..wouldn't you know the second I sent the message below, I found the info I was looking for...so Dan, WG4S please give me an e-mail hollar...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

----- Forwarded message -----

Date: Fri, 12 Apr 2002 07:59:38 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>
Subject: looking for.....

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..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Fri, 12 Apr 2002 10:02:56 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: "Karl F. Larsen" <k5di@zianet.com>, "Bill Coleman" <aa4lr@arrl.net>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [124516] Re: Antennas for Field Days
Message-ID: <1020312100242.KAA01842@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 4/11/02 7:37 PM, Karl F. Larsen at k5di@zianet.com wrote:

>

>The best antenna for field day is a multi element beam for all bands at
>125 feet. The beam is on 2 grider type booms that are 75 feet long. This
>whole thing is on a mountain that is 11,000 feet above sea level.

Karl,

In some areas of the coutry, you'd be hard-pressed to find 11,000 foot
MSL mountains....

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Fri, 12 Apr 2002 10:26:56 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124517] Mountains (was Antennas for Field Day)
Message-ID: <3CB6EEB0.963CB7DE@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mountains?

We don't have mountains here in Florida. However, we do have the 2002
Florida QSO Party.

It's only 15 days away!

<http://www.qsl.net/fqp>

FQP...it rises above the rest!

73
Paul K4FB

> This whole thing is on a mountain that is 11,000 feet above sea level.

>

>

>

> In some areas of the coutry, you'd be hard-pressed to find 11,000 foot
> MSL mountains....
>

Date: Fri, 12 Apr 2002 10:20:53 EDT
From: WE7X@aol.com
To: kb7ww@easystreet.com, qrp-l@lehigh.edu
Subject: [124518] Re: Antenna help.
Message-ID: <ea.25e361a4.29e84745@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Art,

I would consider one of the loop configurations, because they use the most wire and encompass the largest area.

Can you use the loop and the 60+ foot support that you seem to have available?

There is an article in the QST about a sloping loop using one support at one corner and tying off the other three corners with ropes. It looks like a natural for your plan.

WE7X

Rod

Date: Fri, 12 Apr 2002 09:42:48 -0500
From: "Karl Kanalz" <kkanalz@gcecisp.com>
To: <aa4lr@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [124519] Mountain-mounted Antennas for Field Days
Message-ID: <NFB BKOMEFGJGEBABODPOKEBHCBAA.kkanalz@gcecisp.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Especially in Texas!

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Bill Coleman

Sent: Friday, April 12, 2002 9:03 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Antennas for Field Days

On 4/11/02 7:37 PM, Karl F. Larsen at k5di@zianet.com wrote:

>

>The best antenna for field day is a multi element beam for all bands at
>125 feet. The beam is on 2 grider type booms that are 75 feet long. This
>whole thing is on a mountain that is 11,000 feet above sea level.

Karl,

In some areas of the coutry, you'd be hard-pressed to find 11,000 foot
MSL mountains....

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Fri, 12 Apr 2002 14:40:58
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [124520] Re: seeking SMT parts
Message-ID: <F38weAcWKHlQAiPgTN400009201@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

John Wagner asked about SMT for trade. I have a large number of certain
diodes, resistors and capacitors as listed below if anyone else is
interested in trading parts. I am looking mainly for assorted COG capacitors
less than 1000 pF, interesting semiconductors and assorted resistors. Will
also sell caps and resistors 25/\$1 (except 1000V caps which are 10/\$1) and
diodes 12/\$1. Orders less than \$5 please include \$1 for postage and
packaging, otherwise I cover those costs. All parts on original tape and
each type individually packed in small zip-lock bag with identification for
your convenience. E-mail to verify availability.

Diodes of types:

MMBD352LT1 - dual hot carrier (aka Schottky) mixer

BAV70
BAS31
PMBD6050

in large quantities

Resistors:

22.1
49.9
75
2K
4.99K

in reasonably large quantities

Capacitors:

100pf COG 50V 1206
.001 COG 100V 1206
.0018 COG 100V 1206
.0033 film 50V
.01 X7R 50V 0805
.047 X7R 50V 0805
.027 X7R 1000V (not a typo!) 1812
.1 X7R 50V 1206

Most in large quantities

Regards,

Brad KG6IOE

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>.

Date: Fri, 12 Apr 2002 10:45:42 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [124521] RE: End of QRP?

Message-ID: <125490A005E3D3118C9C00805FC743CC03391CD7@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi, Tom,

Thanks for the followup.

For those interested, ARRL and Amateur Radio's viewpoint of Part 15 is written up at:

<http://www.arrl.org/tis/info/part15.html>

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----
> From: Tom Cantrell [<mailto:twc@charter.net>]
> Sent: Friday, April 12, 2002 10:04 AM
> To: Hare,Ed, W1RFI; grp-1@Lehigh.EDU
> Cc: Bodson, Dennis (Dir, Roanoke); gzimmer@bigpond.com
> Subject: Re: End of QRP?
>
>
> Hello Ed:
>
> I can see this is a controversial subject. As for...
>
> "He has just written a glowing review of the HomePlug system,
> but seems to
> have absolutely no idea of how important the HF spectrum is
> world wide. He
> seems to think that HF is now superseded and should be reallocated."
>
> This statement implies I'm not aware of the widespread uses
> of HF and worse,
> that
> I advocate existing users (police, fire, aircraft, Hams) be
> sacrificed in
> favor of PLC. Both are false.
>

> I will simply leave it at...
>
> ...from...
> http://www.qsl.net/rsqb_emc/emcplc.pdf
>
> "The FCC rules state the operators of Part 15 devices must
> ensure that they
> do not cause harmful interference to
> radio services. The operator of a radio frequency device is
> required to
> cease operating the device upon
> notification by an FCC representative that the device is
> causing harmful
> interference. Operation is not allowed
> to resume until the condition causing the harmful
> interference has been
> corrected."
>
> Best regards,
> Tom Cantrell
> West Coast Editor
> Circuit Cellar Magazine
> 805.594.1899
> www.circuitcellar.com
>
>
> ----- Original Message -----
> From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
> To: <qrp-1@Lehigh.EDU>
> Cc: <twc@charter.net>; "Bodson, Dennis (Dir, Roanoke)"
> <dbodson@arrl.org>
> Sent: Friday, April 12, 2002 6:41 AM
> Subject: Re: End of QRP?
>
>
> > These technologies are generally known as PLC (power-line
> communications).
> > There are two types. The devices that operate under the HomePlug
> > specification are designed to network computers in a local
> area, using a
> > building's electrical wiring as the interconnect. Other
> PLC technology is
> > known as "access" PLC, intended to provide internet service using
> > utility-owned electrical wiring.
> >
> > The HomePlug specification is very tightly defined. It
> operates from
> 4.0 -

> > 10.0 MHz, at a power level of -50 dBm/Hz. (That is 0.01
> microwatts in
> every
> > Hz of bandwidth. In a typical 2500 Hz bandwidth, the
> transmitted power
> will
> > be 25 microwatts.) This is just about at the limit of what
> the Part 15
> > rules will permit.
> >
> > Even more important, the HomePlug specification includes
> notches in the
> > amateur bands, to a level of lower than -80 dBm/Hz (0.00001
> microwatts in
> > each Hz of bandwidth). This is about 30 dB better than
> what the FCC rules
> > permit. HomePlug did this in a sincere attempt to mitigate
> widespread
> > harmful interference from the operation of their products.
> I find it
> > unfortunate that the editor of the article will be getting
> letters that
> will
> > not include any of this important information. If every
> industry took
> such
> > steps, we would all be quite pleased, I am sure.
> >
> > The joint ARRL/HomePlug report about the testing that was
> behind their
> > decision to do this is posted at:
> >
> > http://www.arrl.org/~ehare/rfi/homeplug/ARRL_HomePlug_Dec_2000.pdf
> >
> > When ARRL worked with them, we did so under the auspices of a
> non-disclosure
> > agreement. Now that the specification is finalized, the
> details that were
> > shared with us in confidence are no longer confidential, so
> the report was
> > released a couple of months ago. I have an ARRL web-page
> RFI Update column
> > scheduled on this issue, but have been sidetracked into several
> interference
> > studies related to the 70-cm RFID/Savi Technologies FCC rulemaking.
> >
> > 73,
> > Ed Hare, W1RFI

> > ARRL Lab
> > 225 Main St
> > Newington, CT 06111
> > Tel: 860-594-0318
> > Internet: w1rfi@arrl.org
> > Web: <http://www.arrl.org/tis>
> >
> > Subject: End of QRP?
> > From: Graeme Zimmer (gzimmer@bigpond.com)
> > Date: Thu Apr 11 2002 - 13:16:44 EDT
> >
> >
> > Next message: Trevor Jacobs: "Re: End of QRP?"
> > Previous message: P.Ermisch: "Re: [Neet Looking Tins]"
> > In reply to: kb1dxc: "Neet Looking Tins"
> > Next in thread: Trevor Jacobs: "Re: End of QRP?"
> > Reply: Graeme Zimmer: "End of QRP?"
> >
> >
> -----
> -----
> --
> > ----
> >
> > Recently I posted a note about the threat to our hobby from
> the HomePlug
> > Power Mains communication system.
> > I was saddened to see only one reply.
> >
> > So I thought I'd have just one more try. Here is a summary:
> >
> > The system transmits data on the mains wiring using
> hundreds of broad-band
> > carriers in the HF band. The modems put out a relatively high signal
> level.
> > Around 100 mW it seems.
> >
> > Can you image a 100mW broad band noise source in the next room?
> > Can you imagine the signal being piped into your house on your mains
> > cabling?
> > Can you imagine tens of thousands of them around the country?
> >
> > The BBC calculates that the signal level is around 50db
> higher than the
> > European Conducted Emission limits.
> >
> > This level even exceeds the European immunity test level.
> As this is a

> very
> > stringent test by USA standards, the level will certainly
> be high enough
> to
> > directly affect a large number of appliances !
> >
> > The calculated interference level are awesome. It will be
> so high for some
> > SWLs that even outside antennas will be useless even for strong SW
> stations.
> >
> > The really scary bit is that around large centers the
> effects will extend
> > out to 100 Km or so.
> > The interference will actually be bad enough to effect
> ships at sea and
> even
> > aircraft.
> >
> > To put this in perspective, a friend of mine (here in
> Australia) has been
> > doing low power tests in the 13 MHz ISM "junk band"
> > With around 1 mW output, his best distance reception has
> been 16,300 kms.
> He
> > is
> > frequently heard in USA.
> >
> > These Home plug modems are putting out one hundred times
> that power level
> > (and there will be tens of thousands of them). In other words, it is
> likely
> > that
> > Modems in USA will cause significant radio interference in
> Australia !!!!
> >
> > I hope that we can manage to get them banned.
> >
> > What can you do ?
> >
> > Firstly read these documents.....
> > http://www.qsl.net/rsgb_emc/emcplc.pdf
> > <http://www.bbc.co.uk/rd/pubs/papers/pdf/files/hf2000jhs.pdf>
> > <http://www.bbc.co.uk/rd/pubs/whp/whp-pdf-files/WHP012.pdf>
> >
> > Then write to
> > Tom Cantrell
> > twc@charter.net

> > West Coast Editor
> > Circuit Cellar Magazine
> >
> > He has just written a glowing review of the HomePlug
> system, but seems to
> > have absolutely no idea of how important the HF spectrum is
> world wide. He
> > seems to think that HF is now superseded and should be reallocated.
> >
> > Anyway, it is one tiny chance for us to be heard by someone
> with some
> > influence.
> >
> > And please don't bother writing to me. I am already aware
> of the issue.
> > Write instead to Tom.
> > Tell him how much you enjoy your hobby (both QRP and SWL)
> and how much you
> > dread this system coming to a house near you, sometime soon.
> >
> > Thanks for listening Zim VK3GJZ
> >
>
>

Date: Fri, 12 Apr 2002 07:48:01 -0700
From: "Dan Hogan" <dhhogan1@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [124522] Re: Cutting PCB Material
Message-ID: <3CB69131.5094.73B28C@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I own an 18" Bandsaw, a 16" Scrollsaw, and a Dremel and a Sabersaw(Jigsaw).
All the PCB stock I have is epoxy, various sizes, 12x12 in. is the largest. I
have used the Wiss-300 to cut it for my projects, quickest, easiest.

On 12 Apr 2002, at 7:16, Haines Brown wrote:

[Snip]

> Has anyone tried using a power tool such as the Dremel with a cutting
> bit and a straight edge? There are circular cutters for such a tool,
> but how would you guide it? Do any of these hand tools have an
> attachment that lets you use it as a mini-arbor saw? Are there routing
> or similar bits that could be drawn through the PCB material along a

> straight edge?
[Snip]
Dan Hogan WA6PBY
dhhogan1@earthlink.net
West Covina, CA
QRP-L #558

Date: Fri, 12 Apr 2002 23:58:24 +0900
From: Junichi Nakajima <nakaji@crl.go.jp>
To: qrp-l@Lehigh.EDU
Subject: [124523] Re: End of QRP
Message-ID: <200204121452.XAA04162@ryuu.>
Mime-Version: 1.0
Content-Type: text/plain; charset=iso-2022-jp

Hi all,

The PLC problem also occurred in Japan.
Not only the QRPers, DXers are very angry to the situation.
Thousands of amateurs had send objection to the government.
The companies which promote PLC bussiness had requested a relax
of restriction of emission in HF. Japanese government
is considering that it will be possible or not.
ICOM is the sole protesting company to ARIB.
JARL and ARIB (PLC promoting business group) had
carried out joint experiment last January and you can see the photos at

[http://www.excite.co.jp/world/url/body/?
wb_url=http%3A%2F%2Fwww.jarl.or.jp%2FJapanese%2F2_Joho%2F
akagi0126.htm&submit=%83E%83F%83u%83y%81%5B%83W%96%7C%96%F3&wb_lp=JAEN&wb_dis=2&wb
_co=excitejapan](http://www.excite.co.jp/world/url/body/?wb_url=http%3A%2F%2Fwww.jarl.or.jp%2FJapanese%2F2_Joho%2Fakagi0126.htm&submit=%83E%83F%83u%83y%81%5B%83W%96%7C%96%F3&wb_lp=JAEN&wb_dis=2&wb_co=excitejapan)

or
http://www.jarl.or.jp/Japanese/2_Joho/akagi0126.htm
[http://www.ad.wakwak.com/~semba/20020126akagi_plcexam/
20020126akagi_plcexam_photos.html](http://www.ad.wakwak.com/~semba/20020126akagi_plcexam/20020126akagi_plcexam_photos.html)
<http://www.geocities.co.jp/Technopolis-Mars/7270/index.html>\$B!!(B

Please use a translation site to understand the Japanese contents.
PLC typically pouring 200mW OFDM noise spectrum into
the power line continuously, and un-balanced line emit huge amount of radio.
It will never stop once installed. If a neghboring house install
the PLC, it means a death to amateur radio from one's house.
We, QRPers can escape to fields, but DXers who had built towers
can not escape from it. Surely it will interfere whole radio in HF
including aircraft, ship and broadcasting listeners.

We are not sure why the ARRL and FCC had allowed the HomePlug which have insufficient -30dB notches only in amateur radio band. It becomes previous instance of the PLC promoting group. We would be happy if you let me know actual interference case of the HomePlug already happened in U.S.

Rgds.,

JL1KRA Junichi

Date: Fri, 12 Apr 2002 11:32:27 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: <w1rfi@arrl.org>
Subject: [124524] Re: End of QRP?
Message-ID: <002501c1e237\$b869baa0\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
Subject: Re: End of QRP?

> Even more important, the HomePlug specification includes
> notches in the amateur bands

There was a very good article on this in Scientific American a couple of months ago. The general gist was that if they put any sort of signal into the ham bands the resulting FCC reviews and possible litigation would keep them from going commercial for years, so they decided avoiding that was a better choice.

I think we have a lot to thank the League for.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Fri, 12 Apr 2002 16:58:50 +0100

From: euramcom pages <mel@euramcom.freeseerve.co.uk>
To: <qrp-1@lehigh.edu>
Subject: [124525] National HRO RX and coilpacks
Message-ID: <T5a3788db83ac1785ec0c5@pcow034o.blueyonder.co.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Ho gangue,

Slightly OT, but I have one of these on sale ebay uk.

For any interested, go to

<http://www.ebay.co.uk>

Item# 1092516270

BUT! note due to weight and packaging restrictions this thing is=
for
collection only EDINBURGH UK. Just in case there is someone on=
the
list looking and near enough to collect.

Thanks for BW

Mel
GM6JAG and now MM3AIM also

Edinburgh, Scotland UK

Date: Fri, 12 Apr 2002 10:15:14 -0500
From: "Brian Murrey" <brian@iquest.net>
To: "QRP-L" <qrp-1@Lehigh.EDU>
Subject: [124526] QST
Message-ID: <014401c1e234\$d96c8870\$60532bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Someone was keeping track of this...

I got my May QST in New Whiteland IN (nr Indy) on 04/11/2002

Date: Fri, 12 Apr 2002 12:10:18 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: "'twc@charter.net'" <twc@charter.net>
Subject: [124527] RE: End of QRP?
Message-ID: <125490A005E3D3118C9C00805FC743CC03391CDB@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Mea culpa. The correct URL is:

> > http://www.arrl.org/~ehare/rfi/homeplug/HomePlug_ARRL_Dec_2000.pdf

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

>

Date: Fri, 12 Apr 2002 12:18:09 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [124528] Re: End of QRP?
Message-ID: <3.0.6.32.20020412121809.007b75c0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

There's another wirelss scheme being proposed for PDA's and accesories which use magnetic induction at mid HF frequencies. I imagine they use a small loop antenna of some sort, haven't seen any details of that end yet. But they run on very low power and have a range of a meter or two, so shouldn't be a problem...

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Fri, 12 Apr 2002 11:19:48 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: brian@iquest.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124529] Re: QST
Message-ID: <3CB70924.9E7EDCC8@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Brian Murrey wrote:

>
> Someone was keeping track of this...
>
> I got my May QST in New Whiteland IN (nr Indy) on 04/11/2002

And I finally got my APRIL CQ yesterday! Wonder if I will get my May issue in a few weeks.

73 de Dave, N0IT

Date: Fri, 12 Apr 2002 12:35:59 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "'nakaji@crl.go.jp'" <nakaji@crl.go.jp>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124530] RE: End of QRP
Message-ID: <125490A005E3D3118C9C00805FC743CC03391CE0@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-2022-jp"

Thank you Junichi-San.

The URL you gave was too long for my Windows system to recognize, so I downloaded it and put it on:

<http://www.arrl.org/~ehare/rfi/homeplug/jarlplcexperiment.html>

I will try to run the other sites through one of the translation pages and post URLs for English translations later.

I have also shared the URL with those have asked me to send email information about PLC as I get it. If anyone wants to be in my address book for PLC information, let me know.

> We are not sure why the ARRL and FCC had allowed the HomePlug which
> have insufficient -30dB notches only in amateur radio band.

HomePlug is permitted under FCC rules, so ARRL was in no position to allow or not allow the new technology.

In looking at the URLs you supplied, however, the tests you ran were NOT of the HomePlug devices, but of "access PLC." The measurements ARRL made of the HomePlug specification indicated that the 30 dB specification, although not adequate to protect against all possible cases, was a major improvement over the levels permitted by Part 15. The technology was going to deploy with or without us, so helping the industry to understand the interference potential and the reasons to do more than the rules require was pretty important.

For the record, similar notches were included in the Home Phone Networking Alliance and the VDSL specifications, for exactly the same reasons.

Just as soon as I am done with some final testing on the 70 cm RFID reports, I want to try (again) to contact some of the companies developing access PLC technology.

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----
> From: Junichi Nakajima [<mailto:nakaji@crl.go.jp>]
> Sent: Friday, April 12, 2002 10:58 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: End of QRP
>
>
> Hi all,

>
> The PLC problem also occurred in Japan.
> Not only the QRPers, DXers are very angry to the situation.
> Thousands of amateurs had send objection to the government.
> The companies which promote PLC bussiness had requested a relax
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> http://www.excite.co.jp/world/url/body/?wb_url=http%3A%2F%2Fwww.w.jarl.or.jp%2FJapanese%2F2_Joho%2Fakagi0126.htm&submit=%83E%83F%83u%83y%81%5B%83W%96%7C%96%F3&wb_lp=JAEN&wb_diss=2&wb_co=excitejapan

or
http://www.jarl.or.jp/Japanese/2_Joho/akagi0126.htm
http://www.ad.wakwak.com/~semba/20020126akagi_plcexam/20020126akagi_plcexam_photos.html
<http://www.geocities.co.jp/Technopolis-Mars/7270/index.html> \$B!!(J

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HomePlug already happend in U.S.

Rgds.,

JL1KRA Junichi

Date: Fri, 12 Apr 2002 11:42:26 -0500
From: "George, W5YR" <w5yr@att.net>
To: kkanalz@gcecis.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124531] Re: Mountain-mounted Antennas for Field Days
Message-ID: <3CB70E72.2C6C41AC@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The worst Field Day score ever turned in by the Richardson (TX) Wireless Klub was back in the 70's when instead of putting up the usual wire antennas, etc. we put up a four-element vertical in-line array using a "Beam Steering Combiner" for azimuthal pattern control. The result was a super sharp beam, especially on 40 meters. Result: the excessive directivity produced only a few responses per call from the limited area of the country that we were beaming. Too much time was spent moving the beam and making calls that produced few responses to amass much of a score. The following year, we went back to the wires and one tribander for 20, 15, and 10. Usual large score resulted . . .

Moral: too much directivity is like too much money or too low a body weight. Sometimes you can't have enough, but at other times, it can do you in.

I think that Karl in New Mexico was pulling our legs a bit and bragging upon his state's terrain features! <:}

73/72/00, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

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Karl Kanalz wrote:

>

> *Especially* in Texas!

Date: Fri, 12 Apr 2002 12:42:26 -0400
From: Caitlyn Martin <caitlynmaire@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [124532] Refunds sent
Message-ID: <20020412124226.3d01efe1.caitlynmaire@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

Hi, everyone,

Yesterday I sent Mr. Malloy a full refund of the money he sent me for the Toshiba laptop. I can only hope he will acknowledge this publicly when he receives the funds as he was to air his grievance on this reflector. Mr. Malloy has made perfectly clear that there is absolutely nothing I can do to satisfy him at this point. I sincerely regret the delay and any inconvenience caused to Mr. Malloy.

Sincerely,
Caitlyn Martin
KU4QD

Date: Fri, 12 Apr 2002 11:55:50 -0500
From: "George, W5YR" <w5yr@att.net>
To: caitlynmaire@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124533] Re: Refunds sent
Message-ID: <3CB71196.B3B3F5CA@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Caitlyn, with all respect, I think that most everyone on the list has listened at length to both sides of this unfortunate situation, and that further exposure is of little benefit to you and your customers and of no benefit at all to the list readers as a group.

I ask that you and your business partners continue your discussions in private.

Thank you.

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
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All outgoing email virus-checked by Norton Anti-Virus 2002

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> absolutely nothing I can do to satisfy him at this point. I sincerely
> regret the delay and any inconvenience caused to Mr. Malloy.

Date: Fri, 12 Apr 2002 12:47:04 -0400
From: "John Dorson" <jdorson@Worldshare.net>
To: <w5yr@att.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [124534] Re: Refunds sent
Message-ID: <001501c1e241\$aed79480\$aa90f4d1@atwork>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I hope we all second that...

----- Original Message -----

From: "George, W5YR" <w5yr@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, April 12, 2002 12:55 PM
Subject: Re: Refunds sent

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>
> All outgoing email virus-checked by Norton Anti-Virus 2002
>
>
> Caitlyn Martin wrote:
> >
> > Hi, everyone,
> >
> > Yesterday I sent Mr. Malloy a full refund of the money he sent me for
> > the Toshiba laptop. I can only hope he will acknowledge this
> > publicly when he receives the funds as he was to air his grievance on
> > this reflector. Mr. Malloy has made perfectly clear that there is
> > absolutely nothing I can do to satisfy him at this point. I sincerely
> > regret the delay and any inconvenience caused to Mr. Malloy.
>

Date: Fri, 12 Apr 2002 12:09:33 -0500
From: "Karl Kanalz" <kkanalz@gcecispc.com>
To: <brian@iquest.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [124535] RE: QST delivery
Message-ID: <NFBBKOMEFGJGEBABODP00EBKCBA.kkanalz@gcecispc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

So.....? What's the point of this message, Brian?

We all receive our Q-Street mags at different times, due to the publisher/fulfillment server's method of doing the job.

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: Brian Murrey
Sent: Friday, April 12, 2002 10:15 AM
To: Low Power Amateur Radio Discussion
Subject: QST

Someone was keeping track of this...

I got my May QST in New Whiteland IN (nr Indy) on 04/11/2002

Date: Fri, 12 Apr 2002 10:05:38 -0700
From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [124536] Re: seeking SMT parts
Message-ID: <D3FB80858D62D511ACD500D0B73E9D850234232B@az33exm03.corp.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

This sounds like it would make a nice kit from someone (hint, hint!). I myself am looking to buy a bunch of surface mount stuff from Mouser. From Mouser, the going price for 1206 resistors is 100/\$2. Digikey is much higher at 100 for \$4-\$6.

I have been tempted to pick up 1206 resistor reels from Ebay. A reel of 2000-5000 resistors go for about \$7, shipping not included. This is far less on a per part basis than mouser, but I really do not need 5000 4.99K resistors!

If someone knows where I can pick up SMT reels cheap, let me know!

Ebay is not a bad source for these parts. I just bought 100 2N4401 (NPN) and 100 2N4403 (PNP) for \$6 including shipping. However, it is a real pain with the limited time that I have available for the hobby to me to keep watching for cheap parts. I would rather be spending the time learning to lay out a PC board.....

- Dan Tayloe, N7VE; Az ScQRPions; Phoenix, Az.

Date: Fri, 12 Apr 2002 11:25:47 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-1@lehigh.edu
Subject: [124537] HF Band interference?
Message-ID: <Pine.LNX.4.44.0204121121210.3310-1000000@Daisy.dog>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

It has been seen that world wide companies are pushing a system of data communications over power lines. They have a web site at:

www.homeplug.org

At this time it looks like they may be having depression problems, but the idea might take hold at any time. It's not easy to see what frequencies they plan to use, but in anycase it will be a "Part 15" devise, and we can write FCC if we get interference.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Fri, 12 Apr 2002 13:24:08 -0400
From: "John L. Sielke" <w2agn@w2agn.net>
To: John Dorson <jdorson@Worldshare.net>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124538] Re: Refunds sent
Message-ID: <02041213240800.05514@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

On Friday 12 April 2002 12:47, John Dorson wrote:

> I hope we all second that...

>

>

--

Amen! She was a pain in the butt BEFORE this started!

John L Sielke W2AGN
w2agn@w2agn.net
<http://www.w2agn.net>
Trustee: W3IYQ

When you do a good deed get a receipt just in case heaven is like the IRS.

Date: Fri, 12 Apr 2002 13:27:36 -0400
From: "KU4YP" <ku4yp@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [124539] Re: Refunds sent
Message-ID: <004001c1e247\$590c0580\$9b573b41@mprevatt>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

well,

 i don't. but i'll let the sleeping dogs lay.....

73 de KU4YP "There is no spoon....."

Mike Prevatt

Willow Oak, Florida

----- Original Message -----

From: "John Dorson" <jdorson@Worldshare.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, April 12, 2002 12:47 PM
Subject: Re: Refunds sent

> I hope we all second that...

>

>

> ----- Original Message -----

> From: "George, W5YR" <w5yr@att.net>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Friday, April 12, 2002 12:55 PM
> Subject: Re: Refunds sent

>

>

> > Caitlyn, with all respect, I think that most everyone on the list has
> > listened at length to both sides of this unfortunate situation, and that
> > further exposure is of little benefit to you and your customers and of
no

> > benefit at all to the list readers as a group.

> >

> > I ask that you and your business partners continue your discussions in
> > private.

> >
> > Thank you.
> >
> > 73/72/oo, George W5YR - the Yellow Rose of Texas
> > Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
> > Amateur Radio W5YR, in the 56th year and it just keeps getting better!
> > QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
> > Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437
> >
> > All outgoing email virus-checked by Norton Anti-Virus 2002

Date: Fri, 12 Apr 2002 10:02:18 -0700
From: Steve Smith <sigcom@juno.com>
To: qrp-l@Lehigh.EDU
Cc: dave@redhotradio.com
Subject: [124540] Re: AOL 7.0 Tin Project?
Message-ID: <20020412.102823.-16526941.0.sigcom@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dave,

I was thinking if this device was to be a transmitter or transceiver with more than a few hundred milliWatts power output that more than one or two cells would be required. I guess a charge-pump power supply like the cel. phone vehicular chargers use would get the voltage up there but the noise would probably be prohibitive. What do you think? I was eyeballing the larger (900 mAh) cells and it looks as those will also fit inside the 7.0 tin but I've yet to give one a trial fit.

73.....Steve 'The Scrounger' Smith
WB6TNL Oxnard, CA USA
"Snort Rosin"

On Fri, 12 Apr 2002 01:13:36 -0700 "Dave Fifield" <dave@redhotradio.com> writes:

> Steve et al,
>
> I was just pulling an wornout Motorola V-phone battery apart this
> afternoon to see what was wrong with it. It's a 3.6V 480mAh
> Panasonic Li-Ion cell, very thin. There's a whole ton of
> electronics in with the battery too (charge control). I think
> a rig could be made to work on just one of these cells quite

> easily. I'm thinking about it....
>
> Cheers es 72,
> Dave Fifield, AD6A
>
>

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<http://dl.www.juno.com/get/web/>.

Date: Fri, 12 Apr 2002 13:05:12 -0500
From: Dave Hottell <hottell@gulftel.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [124541] Re: End of QRP?
Message-ID: <3.0.6.32.20020412130512.008edd40@pop.gulftel.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang,

Ed Hare wrote:

>Even more important, the HomePlug specification includes notches in the
>amateur bands, to a level of lower than -80 dBm/Hz (0.00001 microwatts in
>each Hz of bandwidth). This is about 30 dB better than what the FCC rules
>permit.

OK, while the power level here sounds low, will this not result in
intolerable levels of interference? If I did the math right, at 500 Hz of
bandwidth and -80dBm/Hz, do we not get a power level of -53dBm? Isn't this
an S9+ noise level on a typical ham receiver with a 500 Hz bandwidth
sensitivity of -130dBm? On a bandwidth of 2500 Hz the level becomes
-46dBm. S9++.

Even if the PLC signal were only 1 Hz wide the level would be -80dBm which
would be still be about an S9. Virtually all of the signals we receive are
at levels lower than this, are they not?

It is true that we have quite a bit of ambient noise in the 4-10 MHz range,
but no where near this much.

And this stuff is going to be carried for miles on the good conducting
copper and aluminum power lines.

Remember that we have guys using micro-watt transmitted signal levels communicating over thousands of miles -- with more than 100dB of attenuation in path loss.

I tend to agree with the fellow from Japan that hams will find this new technology intolerable. Unless I've got it all wrong, sounds like this is sure enough is a killer for all amateur communications.

73 es gl,
Dave
AB9CA

Date: Fri, 12 Apr 2002 14:37:13 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124542] RE: End of QRP?
Message-ID: <125490A005E3D3118C9C00805FC743CC03391CE4@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

You also have to figure in path loss and the gain of the transmit and receive antennas. By my estimation, the residential wiring would be about -10 to -20 dBi. At 0.03 km separation, the path loss on 7 MHz would be 19 dB. The testing we did at KB1BE indicated that when a signal of -80 dBm/Hz was put on his residential electrical wiring, it was just audible to the antennas at his station, located as close as 20 feet to the house.

Again, do NOT confuse the HomePlug devices with access PLC. HomePlug is designed to network computers within a building using that building's electrical wiring. Access PLC is designed to use the miles of utility electrical wiring to provide IS service to residences and businesses.

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

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advertising. For more information about ARRL, go to <http://www.arrl.org/news/features/inside-your-league.html>. For more information about membership, go to <http://www.arrl.org/join.html>. Your contribution can also help support ARRL's ongoing efforts to protect Amateur spectrum. Go to <https://www.arrl.org/forms/development/donations/basic/> to learn more about the ways you can support the ARRL programs and activities of most importance to you. You can help ARRL protect Amateur Radio for you and future generations to enjoy.

> -----Original Message-----

> From: Dave Hottell [mailto:hottell@gulftel.com]

> Sent: Friday, April 12, 2002 2:05 PM

> To: Low Power Amateur Radio Discussion

> Subject: Re: End of QRP?

>

>

> Hi gang,

>

> Ed Hare wrote:

>

> >Even more important, the HomePlug specification includes

> notches in the

> >amateur bands, to a level of lower than -80 dBm/Hz (0.00001

> microwatts in

> >each Hz of bandwidth). This is about 30 dB better than what

> the FCC rules

> >permit.

>

> OK, while the power level here sounds low, will this not result in

> intolerable levels of interference? If I did the math right,

> at 500 Hz of

> bandwidth and -80dBm/Hz, do we not get a power level of

> -53dBm? Isn't this

> an S9+ noise level on a typical ham receiver with a 500 Hz bandwidth

> sensitivity of -130dBm? On a bandwidth of 2500 Hz the level becomes

> -46dBm. S9++.

>

> Even if the PLC signal were only 1 Hz wide the level would be

> -80dBm which

> would be still be about an S9. Virtually all of the signals

> we receive are

> at levels lower than this, are they not?

>

> It is true that we have quite a bit of ambient noise in the

> 4-10 MHz range,

> but nowhere near this much.

>

> And this stuff is going to be carried for miles on the good conducting
> copper and aluminum power lines.
>
> Remember that we have guys using micro-watt transmitted signal levels
> communicating over thousands of miles -- with more than 100dB of
> attenuation in path loss.
>
> I tend to agree with the fellow from Japan that hams will
> find this new
> technology intolerable. Unless I've got it all wrong, sounds
> like this is
> sure enough is a killer for all amateur communications.
>
> 73 es gl,
> Dave
> AB9CA
>

Date: Fri, 12 Apr 2002 14:38:24 -0400
From: "w6toy" <w6toy@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [124543] Re: Refunds sent
Message-ID: <002401c1e251\$575e22e0\$d3182c42@w6toy>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This whole thing could be eliminated if all of you learned to use the
PRIVATE mail facility in your browser!

73

Date: Fri, 12 Apr 2002 15:13:35 -0400
From: "Mark J. Dulcey" <mark@buttery.org>
To: w1rfi@arrl.org
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124544] Re: End of QRP?
Message-ID: <3CB731DF.1040600@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hare,Ed, W1RFI wrote:

> You also have to figure in path loss and the gain of the transmit and
> receive antennas. By my estimation, the residential wiring would be about
> -10 to -20 dBi. At 0.03 KM separation, the path loss on 7 MHz would be 19
> dB. The testing we did at KB1BE indicated that when a signal of -80 dBm/Hz
> was put on his residential electrical wiring, it was just audible to the
> antennas at his station, located as close as 20 feet to the house.

But that's not good enough for some of us. I live on an urban lot. I'm not sure there are any points on my property that are 20 feet away from every house. I'm certain that any type of horizontal antenna will come closer than 20 feet to one or more houses at some point.

If you live in any sort of multi-unit housing (I'm fortunate not to have this problem), things get even worse. Now there may be people IN YOUR VERY BUILDING that are using this stuff. The signals will be radiated from the power lines all around you, even the ones in the shack, so if the shielding on any of your station equipment is less than perfect, there will be another path for RF noise to come in through. And some signal will probably leak into your rig through the power supply, unless you run your entire station from batteries.

Finally, the current ham bands get some protection. But what about possible future bands? And what about users of other radio services, such as shortwave listeners, who don't even get the benefit of the ham-band notches? And what about the household wiring that happens to be resonant on some important frequency, and has a lot more gain than -20dBi?

All in all, I think the entire concept is a can of worms that is best left closed. It is true that under the Part 15 rules, you could insist that the offender cease operation of the equipment. But do you want to track down all the users, including the ones who, under some circumstances, could be hundreds or thousands of miles away? Do you want to be the one to have to tell a neighbor who has just dropped \$500 on fancy home control gear that he is going to have to take it all back to the store?

Many people don't want to have to string wires around their houses. (There are those of us who are exceptions; we recently had Cat 5 cable run to just about every room in our house.) But there are other ways - many less disruptive - to solve the same problem. Wireless operation on UHF or microwave frequencies (900 MHz, 2.4 GHz, etc.), for example, also have the potential to disturb some amateur radio operations, but don't have the same impact on existing operations, and lack the potential for long distance interference.

(And don't get me started on RFID devices on 433 MHz...)

Date: Fri, 12 Apr 2002 12:20:53 -0700
From: "K7FD N7SG" <k7fd@hotmail.com>
To: qrp-l@Lehigh.EDU
Cc: elecrafft@mailman.qth.net
Subject: [124545] QRP Spring Fling Tomorrow!
Message-ID: <F99cPnhEqPlxpNnDPvk00015e17@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hope to catch a few of you this weekend in the QRP ARCI Spring QSO Party!

Plans are to work 40/20/15/10m, band condx permitting...

73 John K7FD K2/586 QRP ARCI 8193

INFO -> <http://personal.palouse.net/rfoltz/arci/spring.htm>

Join the world s largest e-mail service with MSN Hotmail.
<http://www.hotmail.com>

Date: Fri, 12 Apr 2002 20:37:04 +0100
From: David Heintzleman <pstrdave@kdsi.net>
To: qrp-L@Lehigh.EDU
Subject: [124546] rig sale
Message-ID: <3CB73760.27BD3624@kdsi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

the TT 515, serial # 515 - 0630, is spoken for. thanks
Dave Heintzleman

Date: Fri, 12 Apr 2002 15:30:38 -0400
From: "John L. Sielke" <w2agn@w2agn.net>
To: w6toy <w6toy@erols.com>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124547] Re: Refunds sent

Message-ID: <02041215303802.05514@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

On Friday 12 April 2002 14:38, w6toy wrote:

> This whole thing could be eliminated if all of you learned to use the
> PRIVATE mail facility in your browser!
>
> 73

--

Browser? Browser? We don't use no steenkin' browser. Real Hams use UNIX and PINE, remember? Only CBer's and no-code techs use BROWSERS.

John L Sielke W2AGN
w2agn@w2agn.net
http://www.w2agn.net
Trustee: W3IYQ

When you do a good deed get a receipt just in case heaven is like the IRS.

Date: Fri, 12 Apr 2002 15:32:36 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "'Mark J. Dulcey'" <mark@buttery.org>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124548] RE: End of QRP?
Message-ID: <125490A005E3D3118C9C00805FC743CC03391CEB@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

> But that's not good enough for some of us. I live on an urban
> lot. I'm
> not sure there are any points on my property that are 20 feet
> away from
> every house. I'm certain that any type of horizontal antenna
> will come
> closer than 20 feet to one or more houses at some point.
>
> If you live in any sort of multi-unit housing (I'm fortunate
> not to have
> this problem), things get even worse. Now there may be people IN YOUR

> VERY BUILDING that are using this stuff. The signals will be radiated
> from the power lines all around you, even the ones in the
> shack, so if
> the shielding on any of your station equipment is less than perfect,
> there will be another path for RF noise to come in through. And some
> signal will probably leak into your rig through the power
> supply, unless
> you run your entire station from batteries.

Unfortunately, you are correct. The notches they put in, while very much appreciated by ARRL, cannot protect against such close interference potential. This was recognized by ARRL and HomePlug, with the best I could manage in that area was a general agreement that HomePlug would try to deal with that type of interference on a case-by-case basis.

Keep in mind that they could deploy this product at the current FCC limits without the 30-dB notches, so this was all very much worth the doing. And, if there is interference, I sure intend to remind HomePlug companies that it is time for a "case-by-case" solution. I think that by working with them the way we did, Amateur Radio better positioned itself to work with them after things are deployed. Rather than emailing some black hole at customer service, Amateur Radio will have a point of contact organizationally that will really smoothe over communications with an individual involved company.

Over the past couple of years, ARRL has improved its communication with the FCC in this area, too. We have a cooperative agreement with Riley (between Riley and me at the staff level) that a process will be followed that starts with a ham trying to work with a Part 15 emitter, followed by a letter and assistance from ARRL followed by an FCC advisory letter to the operator, telling him or her that the federal law requires that they correct harmful interference. This has not been fully tested wrt Part 15 devices, although the Commission has contacted the operator of an electric fence and a VHF scanner, to good effect.

I think it was the best we could do at the regulatory and manufacturer level.

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

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> -----Original Message-----

> From: Mark J. Dulcey [mailto:mark@buttery.org]

> Sent: Friday, April 12, 2002 3:14 PM

> To: w1rfi@arrl.org

> Cc: Low Power Amateur Radio Discussion

> Subject: Re: End of QRP?

>

>

> Hare,Ed, W1RFI wrote:

> > You also have to figure in path loss and the gain of the
> transmit and

> > receive antennas. By my estimation, the residential wiring
> would be about

> > -10 to -20 dBi. At 0.03 km separation, the path loss on 7
> MHz would be 19

> > dB. The testing we did at KB1BE indicated that when a
> signal of -80 dBm/Hz

> > was put on his residential electrical wiring, it was just
> audible to the

> > antennas at his station, located as close as 20 feet to the house.

>

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> away from

> every house. I'm certain that any type of horizontal antenna
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> If you live in any sort of multi-unit housing (I'm fortunate
> not to have

> this problem), things get even worse. Now there may be people IN YOUR
> VERY BUILDING that are using this stuff. The signals will be radiated
> from the power lines all around you, even the ones in the
> shack, so if

> the shielding on any of your station equipment is less than perfect,
> there will be another path for RF noise to come in through. And some

> signal will probably leak into your rig through the power
> supply, unless
> you run your entire station from batteries.
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> Finally, the current ham bands get some protection. But what about
> possible future bands? And what about users of other radio services,
> such as shortwave listeners, who don't even get the benefit of the
> ham-band notches? And what about the household wiring that
> happens to be
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> left closed. It is true that under the Part 15 rules, you
> could insist
> that the offender cease operation of the equipment. But do
> you want to
> track down all the users, including the ones who, under some
> circumstances, could be hundreds or thousands of miles away?
> Do you want
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> fancy home control gear that he is going to have to take it
> all back to
> the store?
>
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> (There are those of us who are exceptions; we recently had
> Cat 5 cable
> run to just about every room in our house.) But there are
> other ways -
> many less disruptive - to solve the same problem. Wireless
> operation on
> UHF or microwave frequencies (900 MHz, 2.4 GHz, etc.), for
> example, also
> have the potential to disturb some amateur radio operations,
> but don't
> have the same impact on existing operations, and lack the
> potential for
> long distance interference.
>
> (And don't get me started on RFID devices on 433 MHz...)
>
>

Date: Fri, 12 Apr 2002 15:35:15 -0400
From: "John L. Sielke" <w2agn@w2agn.net>

To: K7FD N7SG <k7fd@hotmail.com>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124549] Re: QRP Spring Fling Tomorrow!
Message-ID: <02041215351503.05514@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

On Friday 12 April 2002 15:20, K7FD N7SG wrote:
> Hope to catch a few of you this weekend in the QRP ARCI Spring QSO Party!
>
> Plans are to work 40/20/15/10m, band condx permitting...
>
> 73 John K7FD K2/586 QRP ARCI 8193
>

--

Looking forward to it. Note the following from the ARRL Propagation Bulletin:

There is a chance of geomagnetic unrest this weekend due to a solar flare and coronal mass ejection on April 10 at 1230 UTC. This wasn't aimed exactly at earth, so the effects are a little hard to predict, but Thursday morning's forecast from the U.S. Air Force has the planetary A index at 12 on Friday, 15 on Saturday and 20 on Sunday.

John L Sielke W2AGN
w2agn@w2agn.net
<http://www.w2agn.net>
Trustee: W3IYQ

When you do a good deed get a receipt just in case heaven is like the IRS.

Date: Fri, 12 Apr 2002 15:35:46 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124550] RE: End of QRP?
Message-ID: <125490A005E3D3118C9C00805FC743CC03391CEC@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

> (And don't get me started on RFID devices on 433 MHz...)

Tell me about it! The past month of my life has been spent dealing with that issue. I am the one who wrote the bulk of the words for ARRL's Ex Parte presentations on the subject. And there is more to come!

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

ARRL is the National Association for Amateur Radio. It is supported by membership dues, individual contributions and the sale of publications and advertising. For more information about ARRL, go to <http://www.arrl.org/news/features/inside-your-league.html>. For more information about membership, go to <http://www.arrl.org/join.html>. Your contribution can also help support ARRL's ongoing efforts to protect Amateur spectrum. Go to <https://www.arrl.org/forms/development/donations/basic/> to learn more about the ways you can support the ARRL programs and activities of most importance to you. You can help ARRL protect Amateur Radio for you and future generations to enjoy.

> -----Original Message-----

> From: Hare,Ed, W1RFI [mailto:w1rfi@arrl.org]

> Sent: Friday, April 12, 2002 3:33 PM

> To: Low Power Amateur Radio Discussion

> Subject: RE: End of QRP?

>

>

> > But that's not good enough for some of us. I live on an urban

> > lot. I'm

> > not sure there are any points on my property that are 20 feet

> > away from

> > every house. I'm certain that any type of horizontal antenna

> > will come

> > closer than 20 feet to one or more houses at some point.

> >

> > If you live in any sort of multi-unit housing (I'm fortunate

> > not to have

> > this problem), things get even worse. Now there may be

> people IN YOUR

> > VERY BUILDING that are using this stuff. The signals will

> > be radiated

> > from the power lines all around you, even the ones in the

> > shack, so if
> > the shielding on any of your station equipment is less than
> perfect,
> > there will be another path for RF noise to come in through.
> And some
> > signal will probably leak into your rig through the power
> > supply, unless
> > you run your entire station from batteries.
>
> Unfortunately, you are correct. The notches they put in,
> while very much
> appreciated by ARRL, cannot protect against such close interference
> potential. This was recognized by ARRL and HomePlug, with
> the best I could
> manage in that area was a general agreement that HomePlug
> would try to deal
> with that type of interference on a case-by-case basis.
>
> Keep in mind that they could deploy this product at the
> current FCC limits
> without the 30-dB notches, so this was all very much worth
> the doing. And,
> if there is interference, I sure intend to remind HomePlug
> companies that it
> is time for a "case-by-case" solution. I think that by
> working with them
> the way we did, Amateur Radio better positioned itself to
> work with them
> after things are deployed. Rather than emailing some black
> hole at customer
> service, Amateur Radio will have a point of contact
> organizationally that
> will really smoothe over communications with an individual
> involved company.
>
>
> Over the past couple of years, ARRL has improved its
> communication with the
> FCC in this area, too. We have a cooperative agreement with
> Riley (between
> Riley and me at the staff level) that a process will be
> followed that starts
> with a ham trying to work with a Part 15 emitter, followed by
> a letter and
> assistance from ARRL followed by an FCC advisory letter to
> the operator,
> telling him or her that the federal law requires that they
> correct harmful

> interference. This has not been fully tested wrt Part 15
> devices, although
> the Commission has contacted the operator of an electric
> fence and a VHF
> scanner, to good effect.
>
> I think it was the best we could do at the regulatory and manufacturer
> level.
>
> 73,
> Ed Hare, W1RFI
> ARRL Lab
> 225 Main St
> Newington, CT 06111
> Tel: 860-594-0318
> Internet: w1rfi@arrl.org
> Web: <http://www.arrl.org/tis>
>
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> and activities
> of most importance to you. You can help ARRL protect Amateur
> Radio for you
> and future generations to enjoy.
>
>
> > -----Original Message-----
> > From: Mark J. Dulcey [mailto:mark@buttery.org]
> > Sent: Friday, April 12, 2002 3:14 PM
> > To: w1rfi@arrl.org
> > Cc: Low Power Amateur Radio Discussion
> > Subject: Re: End of QRP?
> >
> >
> > Hare,Ed, W1RFI wrote:
> > > You also have to figure in path loss and the gain of the
> > transmit and

> > > receive antennas. By my estimation, the residential wiring
> > would be about
> > > -10 to -20 dBi. At 0.03 km separation, the path loss on 7
> > MHz would be 19
> > > dB. The testing we did at KB1BE indicated that when a
> > signal of -80 dBm/Hz
> > > was put on his residential electrical wiring, it was just
> > audible to the
> > > antennas at his station, located as close as 20 feet to the house.
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> > But that's not good enough for some of us. I live on an urban
> > lot. I'm
> > not sure there are any points on my property that are 20 feet
> > away from
> > every house. I'm certain that any type of horizontal antenna
> > will come
> > closer than 20 feet to one or more houses at some point.
> >
> > If you live in any sort of multi-unit housing (I'm fortunate
> > not to have
> > this problem), things get even worse. Now there may be
> people IN YOUR
> > VERY BUILDING that are using this stuff. The signals will
> be radiated
> > from the power lines all around you, even the ones in the
> > shack, so if
> > the shielding on any of your station equipment is less than
> perfect,
> > there will be another path for RF noise to come in through.
> And some
> > signal will probably leak into your rig through the power
> > supply, unless
> > you run your entire station from batteries.
> >
> > Finally, the current ham bands get some protection. But what about
> > possible future bands? And what about users of other radio
> services,
> > such as shortwave listeners, who don't even get the benefit of the
> > ham-band notches? And what about the household wiring that
> > happens to be
> > resonant on some important frequency, and has a lot more gain
> > than -20dBi?
> >
> > All in all, I think the entire concept is a can of worms
> that is best
> > left closed. It is true that under the Part 15 rules, you
> > could insist
> > that the offender cease operation of the equipment. But do

> > you want to
> > track down all the users, including the ones who, under some
> > circumstances, could be hundreds or thousands of miles away?
> > Do you want
> > to be the one to have to tell a neighbor who has just
> dropped \$500 on
> > fancy home control gear that he is going to have to take it
> > all back to
> > the store?
> >
> > Many people don't want to have to string wires around their houses.
> > (There are those of us who are exceptions; we recently had
> > Cat 5 cable
> > run to just about every room in our house.) But there are
> > other ways -
> > many less disruptive - to solve the same problem. Wireless
> > operation on
> > UHF or microwave frequencies (900 MHz, 2.4 GHz, etc.), for
> > example, also
> > have the potential to disturb some amateur radio operations,
> > but don't
> > have the same impact on existing operations, and lack the
> > potential for
> > long distance interference.
> >
> > (And don't get me started on RFID devices on 433 MHz...)
> >
> >
>

Date: Fri, 12 Apr 2002 15:43:43 -0400
From: "John L. Sielke" <w2agn@w2agn.net>
To: "Hare,Ed, W1RFI" <w1rfi@arrl.org>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124551] Re: End of QRP?
Message-ID: <02041215434304.05514@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

On Friday 12 April 2002 15:35, Hare,Ed, W1RFI wrote:
> > (And don't get me started on RFID devices on 433 MHz...)
>
> Tell me about it! The past month of my life has been spent dealing with
> that issue. I am the one who wrote the bulk of the words for ARRL's Ex
> Parte presentations on the subject. And there is more to come!

>
> 73,
> Ed Hare, W1RFI

--

I remember some 15+ years ago, a TV cable company in Mississippi was running programming in the cable on 145.Xx (something) Mhz. Of course, it leaked like crazy. The cable company was VERY uncooperative, even nasty to a VHF ham who lived there. I hear he got fed up, and fed 1KW of 2M RF into the cable!

>From what I understand, it cured the problem, for a long time.

Disclaimer: The above is only a story. Any resemblance to hams living or dead is purely coincidental, and will be denied in a court of law. Furthermore, these are professionals, don't try this at home, it may cause cancer, tooth decay, and fallen arches.

John L Sielke W2AGN
w2agn@w2agn.net
<http://www.w2agn.net>
Trustee: W3IYQ

When you do a good deed get a receipt just in case heaven is like the IRS.

Date: Fri, 12 Apr 2002 15:46:52 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: qrp-l@Lehigh.EDU
Subject: [124552] QSO Party this weekend
Message-ID: <200204121951.g3CJp3pk018310@rhombus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Looking forward to working a lot of you on the QSO Party this weekend.

I will be on all bands 160 - 10. I will try to be on 160 around 1810 at about 9 pm Eastern Daylight time Saturday evening. If there is anyone on the west coast who would like to try it later, or at about my sunrise on Sunday AM, send me an e-mail and I will make an effort to be on 160 at other times.

73 - Bill - N8ET

Kanga US
kanga@bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Fri, 12 Apr 2002 14:51:35 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: w1rfi@arrl.org
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124553] Re: End of QRP?
Message-ID: <3CB73AC7.AF584B2A@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Ed, I missed the beginning of this discussion. I understand that these devices will raise the noise level in the short-wave bands and may cause interference to us. Is this RF a buy product or are they using them for communications? I guess the question I have is if communications, will we interfere with the devices as well? Maybe if enough of us turn our Alphas on for long enough, the neighbor will get rid of the device. HI

73 de Dave, N0IT

Date: Fri, 12 Apr 2002 16:13:29 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124554] RE: End of QRP?
Message-ID: <125490A005E3D3118C9C00805FC743CC03391CEF@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Hi, Dave,

They use HomePlug PLCs to network computers using building electrical wiring. The RF emissions are unintentional, but likely.

The industry wasn't really very interested in susceptibility testing. (Unlike the Home Phone Networking Alliance, who brought some devices to W1AW to see if 1500 watts on all bands would cream them. It didn't.)

73,

Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

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> -----Original Message-----

> From: Dave Sjolín [mailto:sjolin@swbell.net]

> Sent: Friday, April 12, 2002 3:52 PM

> To: w1rfi@arrl.org

> Cc: Low Power Amateur Radio Discussion

> Subject: Re: End of QRP?

>

>

>

> Ed, I missed the beginning of this discussion. I understand that these

> devices will raise the noise level in the short-wave bands

> and may cause

> interference to us. Is this RF a buy product or are they

> using them for

> communications? I guess the question I have is if communications, will

> we interfere with the devices as well? Maybe if enough of us turn our

> Alphas on for long enough, the neighbor will get rid of the device. HI

>

> 73 de Dave, N0IT

>

Date: Fri, 12 Apr 2002 16:16:06 -0400

From: "Vincent A. Santis" <vsantis@earthlink.net>

To: "QRP List (E-mail)" <qrp-l@lehigh.edu>

Subject: [124555] SGC 2020 DSP

Message-ID: <01C1E23D.6AC89FE0.vsantis@earthlink.net>

MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi,

Anyone using or have experience with the 2020 ADSP? I'll appreciate any and all comments.

Thanks,

Vince Santis,N1VS
Winsted, CT
NEQRP # 598
PRP-L # 2372
FISTS# 8053
CC # 1161

Date: Fri, 12 Apr 2002 15:33:52 -0500
From: Dave Hottell <hottell@gulftel.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [124556] RE: End of QRP?
Message-ID: <3.0.6.32.20020412153352.008e3a90@pop.gulftel.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang,

OK, we do have antenna losses and we do have path losses. If Ed's measurements are correct and generally applicable, then the received level at an antenna 20' from a house is then -53dBm less about 40dB, or -93dBm for 500 Hz bandwidth. This is still well above the noise floor of almost all receivers - which is in the range of -125 to -140dBm. The noise floor would be no lower than about S6 (on an honest S meter). Any signal would have to rise above this to be heard. Still sounds awful loud to me. My local noise level is no where near that high.

And this is from a single user of HomePlug. What do we end up with if the sponsors of HomePlug get their wish and every house has this stuff?

Some questions for Ed on the test:

- 1) Did you use -80dBm/Hz over the entire band of 4 to 10 MHz or was the injected signal more limited in bandwidth?
- 2) How closely did the noise source in the test match that of HomePlug?

Is HomePlug a white noise or is it harmonics of the digital square waves? I am not familiar with the details of HomePlug, but assume this is ethernet applied to home wiring.

3) How many sources did you use? To check the exposure of a condo dweller you would have to use several sources.

4) Was the test site an urban or rural environment? In other words, what was the noise level at the test site? How typical is this of the average ham location? The rural user currently has a lower noise level, but if they happen to have an apartment building a mile or so across the field they could find their noise level rising substantially.

As someone else pointed out, condo and apartment dwellers are in worse shape. Because they have little or no path loss, and with only one neighbor running this stuff, their noise floor is 20 or so dB higher - about S8. And these folks could be getting blasted from several neighbors - above, below, left, right. And don't forget the ones across the hall and those diagonal as well; 17 all together. Lots of noise here folks.

When I lived in an apartment, I believe that my wiring was pulled in the same conduit as that of my neighbor on the other side of the studs and drywall. What is the coupling under these circumstances?

The housing density in Japan is much higher than here, so we should learn from their experience. What little I have heard from there is not good.

This is a classic case of technology outrunning bureaucrats. When the current rules were established, the technology to do this did not exist, but some researcher has worked diligently to create a device which exploits a weakness (from the ham perspective) in those rules.

My belief is that the folks in Japan have got this right. The noise level will rise to an intolerable level if this stuff is widely implemented.

I would certainly agree with another poster who said that there are better ways to accomplish the goal of home networking.

As the ARRL likes to point out, ham radio is the only reliable means of emergency communications. I would hope that something like this is raising alarm bells to all folks associated with handling emergencies.

73 es gl,
Dave
AB9CA

At 02:37 PM 4/12/02 -0400, you wrote:

>You also have to figure in path loss and the gain of the transmit and
>receive antennas. By my estimation, the residential wiring would be about
>-10 to -20 dBi. At 0.03 km separation, the path loss on 7 MHz would be 19
>dB. The testing we did at KB1BE indicated that when a signal of -80 dBm/Hz
>was put on his residential electrical wiring, it was just audible to the
>antennas at his station, located as close as 20 feet to the house.

>

>Again, do NOT confuse the HomePlug devices with access PLC. HomePlug is
>designed to network computers within a building using that building's
>electrical wiring. Access PLC is designed to use the miles of utility
>electrical wiring to provide IS service to residences and businesses.

>

>73,

>Ed Hare, W1RFI

>ARRL Lab

>225 Main St

>Newington, CT 06111

>Tel: 860-594-0318

>Internet: w1rfi@arrl.org

>Web: <http://www.arrl.org/tis>

<snip>

Date: Fri, 12 Apr 2002 16:21:20 -0400

From: "Howard Kraus" <K2UD@adelphia.net>

To: <qrp-1@Lehigh.EDU>

Subject: [124557] AOL Tin

Message-ID: <005d01c1e25f\$9ed7d540\$07633018@buf.adelphia.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Can someone bring one of these tins to FDIM? I've never seen one, and they sound quite nice.

I do receive AOL CD's often, but have always received them in the cheapie plastic holders.

Another query, of those who receive the tin, are you AOL subscribers? When I was on AOL I received lots of CD's, not much now that I'm off.

Howard Kraus, K2UD

Date: Fri, 12 Apr 2002 20:19:55 +0000
From: Larry Cahoon <lejek@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [124558] Re: HF Band interference?
Message-ID: <5.1.0.14.0.20020412201548.00b8c7c8@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>they plan to use, but in anycase it will be a "Part 15" devise, and we can
>write FCC if we get interference.

My one problem with the Part 15 interference issue is how do I know it's them? And how do I identify who it is? So what do I tell the FCC? There is too much noise on the band, I think it might or might not be a Part 15 device that may or may not be on one of my neighbors houses.

Seems to me the problem is better corrected at the source than waiting till I have a problem and no way of now who or where it is coming from.

While I appreciate what Ed is doing with the FCC to address problems, I do think that once the device is released to the public, even if there is a problem discovered later that forces its recall there is almost no hope of locating many of them. So a procedure to address the complaints that are identified can work well for that case don't think it will solve very many of the problems. It will be much more useful in preventing future problems by making all aware of what has already happened.

I do read the warning on the Part 15 devices I purchase, but I also worry that when there are problems with things like cordless phones there will be a lot of weight give to the argument that the phones, which are not protected under the law, should be the protected device. A few million consumer complaints about interference to cordless phones can go a long way towards changing perceptions of where the problems lie and what the solutions are. Again it is much more important what is done up front to eliminate the problems before they happen. This is one good reason we need the ARRL on top of this stuff.

One last thought, I would suggest for all that if you ever purchase a Part 15 device and it either causes interference or cannot be used fully because of interference problems that it be returned to the store/manufacture for a

full refund. That is one way to get the message across to those developing these devices.

73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p/>

Date: Fri, 12 Apr 2002 20:48:39 +0000
From: Larry Cahoon <lejek@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [124559] RE: End of QRP?
Message-ID: <5.1.0.14.0.20020412204547.0237fc60@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>
>They use HomePlug PLCs to network computers using building electrical
>wiring. The RF emissions are unintentional, but likely.

It sure seems like a problem if the signals from these things get into the electrical system in the neighborhood. We could be seeing all sorts of security problems.

73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p/>

Date: Fri, 12 Apr 2002 16:01:46 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: K2UD@adelphia.net,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124560] Re: AOL Tin
Message-ID: <02ed01c1e265\$421dad60\$6501a8c0@lwrnce01.in.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Howard,

Send me your address and I'll get one in the mail to you.

73/72/71! de Brice KA8MAV
QRPp International Radio Club

<http://www.QRPP-I.com>

----- Original Message -----

From: "Howard Kraus" <K2UD@adelphia.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, April 12, 2002 3:21 PM
Subject: AOL Tin

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When
> I was on AOL I received lots of CD's, not much now that I'm off.
>
> 72
>
> Howard Kraus, K2UD
>

Date: Fri, 12 Apr 2002 22:20:40 +0100
From: euramcom pages <mel@euramcom.freemove.co.uk>
To: <w2agn@w2agn.net>
Cc: <qrp-1@lehigh.edu>
Subject: [124561] Re: Refunds sent
Message-ID: <T5a38aef11bac1785ec0c5@pcow034o.blueyonder.co.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

On Fri, 12 Apr 2002 15:30:38 -0400, John L. Sielke wrote:
>On Friday 12 April 2002 14:38, w6toy wrote:
>> This whole thing could be eliminated if all of you learned to=
use
>>the
>> PRIVATE mail facility in your browser!
>>
>> 73
>

Real QRP'ers use Arachne Browser suite - runs in DOS and=downloads in less than 1.44 Meg onto a floppy!

That's QRP browsing GRIN 8>)

Regards

mel

<http://home.arachne.cz>

Date: Fri, 12 Apr 2002 16:26:07 -0500
From: Don <dwittlic@APCI.net>
To: brownh@hartford-hwp.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124562] Re: Cutting PCB Material
Message-ID: <3CB750EF.3751FFBB@APCI.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Haines and all,
I regularly use a Ryobi rotary tool (like a Dremel but a bit more torque) with a fiber reinforced cut-off wheel.
On long cuts if I need accuracy, I will clamp down a straight stick, like a yardstick and use it as either a visual guide or cut right next to it.

Cutting style with the cutoff wheel is your choice. Cut halfway through then snap the board, or if you want a clean cut, go all the way through the board. You can even cut most of the way through the glass side of a single side board then leave the copper intact and bend the cut to a right angles for making shield boxes or cabinets. If the cutoff wheel is a large diameter one, not yet worn down to a smaller diameter, it is fairly easy to make a good enough straight cut freehanded, with no mechanical guide, assuming you are following a pencil line on the board.

Naturally, the cutting and drilling of fiberglass

board makes a certain amount of dust. Wear your eye protection and a anti-dust filtered breathing mask.

--Don

Haines Brown wrote:

>

> I'm following the thread with interest. It seems that heavy duty
> shears (or even a paper cutter?) works with thin material, but what if
> it has more thickness?

>

> Has anyone tried using a power tool such as the Dremel with a cutting
> bit and a straight edge? There are circular cutters for such a tool,
> but how would you guide it? Do any of these hand tools have an
> attachment that lets you use it as a mini-arbor saw? Are there routing
> or similar bits that could be drawn through the PCB material along a
> straight edge?

>

> A sabre saw occurred to me, and while a fine blade would cut nicely,
> my saw has such vibration that working with it seems too challenging.

>

> Haines KB1GRM

Date: Fri, 12 Apr 2002 17:37:43 -0400

From: "Richard Brummer, K2JQ" <k2jq@rcn.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [124563] Re: AOL Tin

Message-ID: <00ec01c1e26a\$4789aba0\$0300a8c0@dad-s-computer.rcn.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Anyone else have one available ?

Seems like I get one of those disks a week in the mail, but not in the tins.

Thanks & 73

Dick K2JQ

Date: Fri, 12 Apr 2002 16:38:39 -0500

From: "Tim, N9PUZ" <N9PUZ@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [124564] Re: Arcane Browsers (was Refunds...)
Message-ID: <010701c1e26a\$68f85340\$a400a8c0@EOS>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Real QRP'ers use Arachne Browser suite - runs in DOS and downloads in
> less than 1.44 Meg onto a floppy!
>
> That's QRP browsing GRIN 8>)

I'll show my age here... DOS is way to new. The hardcore middle agers
would use an old CP/M machine with 360K floppies or tape drives. Purists
would report the information in paper newsletters mailed around the world.

Tim N9PUZ

Date: Fri, 12 Apr 2002 19:32:38 +0100
From: "M.J.Powell" <mike@pickmere.demon.co.uk>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [124565] Re: HF Band interference?
Message-ID: <c3w1HbAGhyt8EwhY@pickmere.demon.co.uk>
MIME-Version: 1.0

In message <Pine.LNX.4.44.0204121121210.3310-1000000@Daisy.dog>, Karl F.
Larsen <k5di@zianet.com> writes

>
> It has been seen that world wide companies are pushing a system of
> data communications over power lines. They have a web site at:
>
> www.homeplug.org
>
> At this time it looks like they may be having depression problems, but the
> idea might take hold at any time. It's not easy to see what frequencies
> they plan to use, but in anycase it will be a "Part 15" devise, and we can
> write FCC if we get interference.

We had this threat in the UK, but it was fought off by the combined
resources of the RSGB, the BBC and the Ministry of Defence.

But it has re-emerged in Germany, IIRC.

Mike

--

M.J.Powell

Date: Fri, 12 Apr 2002 17:49:42 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [124566] RE: End of QRP?
Message-ID: <125490A005E3D3118C9C00805FC743CC040F3AC4@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

> 1) Did you use -80dBm/Hz over the entire band of 4 to 10 MHz
> or was the
> injected signal more limited in bandwidth?

The signal was created using an arbitrary waveform generator. The un-notched part of the spectrum was at -50 dBm/Hz. It was about S6 on Paul's S meter. The notched part of the spectrum was measured at about -75 dBm/Hz, so the final spec came in a bit better.

> 2) How closely did the noise source in the test match that
> of HomePlug?

It was a very close match. The generator signal would have communicated with an actual device.

> 3) How many sources did you use?

One.

> 4) Was the test site an urban or rural environment? In other
> words, what
> was the noise level at the test site? How typical is this of
> the average
> ham location?

It was an average suburban location.

73,
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111

Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

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> -----Original Message-----

> From: Dave Hottell [<mailto:hottell@gulftel.com>]

> Sent: Friday, April 12, 2002 4:34 PM

> To: Low Power Amateur Radio Discussion

> Subject: RE: End of QRP?

>

>

> Hi gang,

>

> OK, we do have antenna losses and we do have path losses. If Ed's
> measurements are correct and generally applicable, then the
> received level

> at an antenna 20' from a house is then -53dBm less about
> 40dB, or -93dBm

> for 500 Hz bandwidth. This is still well above the noise
> floor of almost

> all receivers - which is in the range of -125 to -140dBm.

> The noise floor

> would be no lower than about S6 (on an honest S meter). Any
> signal would

> have to rise above this to be heard. Still sounds awful loud
> to me. My

> local noise level is no where near that high.

>

> And this is from a single user of HomePlug. What do we end
> up with if the

> sponsors of HomePlug get their wish and every house has this stuff?

>

> Some questions for Ed on the test:

>

> 1) Did you use -80dBm/Hz over the entire band of 4 to 10 MHz

> or was the

> injected signal more limited in bandwidth?
>
> 2) How closely did the noise source in the test match that
> of HomePlug?
> Is HomePlug a white noise or is it harmonics of the digital
> square waves?
> I am not familiar with the details of HomePlug, but assume
> this is ethernet
> applied to home wiring.
>
> 3) How many sources did you use? To check the exposure of a
> condo dweller
> you would have to use several sources.
>
> 4) Was the test site an urban or rural environment? In other
> words, what
> was the noise level at the test site? How typical is this of
> the average
> ham location? The rural user currently has a lower noise
> level, but if
> they happen to have an apartment building a mile or so across
> the field
> they could find their noise level rising substantially.
>
> As someone else pointed out, condo and apartment dwellers are in worse
> shape. Because they have little or no path loss, and with
> only one neighbor
> running this stuff, their noise floor is 20 or so dB higher -
> about S8.
> And these folks could be getting blasted from several
> neighbors - above,
> below, left, right. And don't forget the ones across the
> hall and those
> diagonal as well; 17 all together. Lots of noise here folks.
>
> When I lived in an apartment, I believe that my wiring was
> pulled in the
> same conduit as that of my neighbor on the other side of the studs and
> drywall. What is the coupling under these circumstances?
>
> The housing density in Japan is much higher than here, so we
> should learn
> from their experience. What little I have heard from there
> is not good.
>
> This is a classic case of technology outrunning bureaucrats. When the
> current rules were established, the technology to do this did
> not exist,

> but some researcher has worked diligently to create a device
> which exploits
> a weakness (from the ham perspective) in those rules.
>
> My belief is that the folks in Japan have got this right.
> The noise level
> will rise to an intolerable level if this stuff is widely implemented.
>
> I would certainly agree with another poster who said that
> there are better
> ways to accomplish the goal of home networking.
>
> As the ARRL likes to point out, ham radio is the only
> reliable means of
> emergency communications. I would hope that something like
> this is raising
> alarm bells to all folks associated with handling emergencies.
>
> 73 es gl,
> Dave
> AB9CA
>
>
>
>
> At 02:37 PM 4/12/02 -0400, you wrote:
> >You also have to figure in path loss and the gain of the transmit and
> >receive antennas. By my estimation, the residential wiring
> would be about
> >-10 to -20 dBi. At 0.03 kM separation, the path loss on 7
> MHz would be 19
> >dB. The testing we did at KB1BE indicated that when a
> signal of -80 dBm/Hz
> >was put on his residential electrical wiring, it was just
> audible to the
> >antennas at his station, located as close as 20 feet to the house.
> >
> >Again, do NOT confuse the HomePlug devices with access PLC.
> HomePlug is
> >designed to network computers within a building using that building's
> >electrical wiring. Access PLC is designed to use the miles of utility
> >electrical wiring to provide IS service to residences and businesses.
> >
> >73,
> >Ed Hare, W1RFI
> >ARRL Lab
> >225 Main St
> >Newington, CT 06111

> >Tel: 860-594-0318
> >Internet: w1rfi@arrl.org
> >Web: <http://www.arrl.org/tis>
>
>
> <snip>
>

Date: Fri, 12 Apr 2002 15:58:15 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-1@lehigh.edu
Subject: [124567] DX on 28.450
Message-ID: <Pine.LNX.4.44.0204121552430.4013-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I was just cruising about on 10 meters and heard guys working CT1ENX and found I could hear John fine. So waited and called him 3 times. The first 2 times he went back to guys who were 59+20DB. The third call he came back and I told him I was in Las Cruces, NM and running QRP. He said fine and wanted a card from New Mexico. I got a 53 and was running 2 watts to my battery powered FT-817. I did have it hooked to my TH6DXX Beam which was pointed about right.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Fri, 12 Apr 2002 17:55:22 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <N9PUZ@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [124568] Re: Arcane Browsers (was Refunds...)
Message-ID: <001601c1e26c\$d5945ce0\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You had a disk??? I go back to PDP-8a's with toggle switches. You had

to 'switch in' a boot loader that would allow it to read from paper tape!

Mike

----- Original Message -----

From: "Tim, N9PUZ" <N9PUZ@arrl.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, April 12, 2002 5:38 PM

Subject: Re: Arcane Browsers (was Refunds...)

> > Real QRP'ers use Arachne Browser suite - runs in DOS and downloads in

> > less than 1.44 Meg onto a floppy!

> >

> > That's QRP browsing GRIN 8>)

>

> I'll show my age here... DOS is way to new. The hardcore middle agers

> would use an old CP/M machine with 360K floppies or tape drives. Purists

> would report the information in paper newsletters mailed around the
world.

>

> Tim N9PUZ

>

>

Date: Fri, 12 Apr 2002 16:03:17 -0600

From: "John_Evans" <jaevans@codenet.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [124569] Re: Arcane Browsers (was Refunds...)

Message-ID: <200204121603.AA557842758@codenet.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

You had switches?? We had rocks and we had to
scrape holes in them to make an abacus... and we
had to carry it uphill both ways to school in the
snow!!!!

72 - john - n0hj

----- Original Message -----

From: "Mike Yetsko" <myetsko@insydesw.com>

Reply-To: myetsko@insydesw.com

Date: Fri, 12 Apr 2002 17:55:22 -0400

>You had a disk??? I go back to PDP-8a's with toggle switches. You had
>to 'switch in'

Date: Fri, 12 Apr 2002 18:11:07 -0400
From: "John L. Sielke" <w2agn@w2agn.net>
To: "Karl F. Larsen" <k5di@zianet.com>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124570] Re: DX on 28.450
Message-ID: <02041218110707.05514@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

On Friday 12 April 2002 17:58, Karl F. Larsen wrote:
> I was just cruising about on 10 meters and heard guys working
> CT1ENX and found I could hear John fine. So waited and called him 3 times.
> The first 2 times he went back to guys who were 59+20DB. The third call he
> came back and I told him I was in Las Cruces, NM and running QRP. He said
> fine and wanted a card from New Mexico. I got a 53 and was running 2 watts
> to my battery powered FT-817. I did have it hooked to my TH6DXX Beam which
> was pointed about right.

--

Would have blown him away with your EH antenna.

John L Sielke W2AGN
w2agn@w2agn.net
<http://www.w2agn.net>
Trustee: W3IYQ

When you do a good deed get a receipt just in case heaven is like
the IRS.

Date: Fri, 12 Apr 2002 18:15:04 -0400
From: "John L. Sielke" <w2agn@w2agn.net>
To: John_Evans <jaevans@codenet.net>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [124571] Re: Arcane Browsers (was Refunds...)
Message-ID: <02041218150408.05514@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

On Friday 12 April 2002 18:03, John_Evans wrote:

> You had switches?? We had rocks and we had to
> scrape holes in them to make an abacus... and we
> had to carry it uphill both ways to school in the
> snow!!!!
>
> 72 - john - n0hj

--

And they call ME a smartass!

John L Sielke W2AGN
w2agn@w2agn.net
<http://www.w2agn.net>
Trustee: W3IYQ

When you do a good deed get a receipt just in case heaven is like
the IRS.

Date: Fri, 12 Apr 2002 18:12:49 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <jaevans@codenet.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [124572] Re: Arcane Browsers (was Refunds...)
Message-ID: <01a801c1e271\$3e3188a0\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ah, but we were barefoot.

And naked!

Mike

----- Original Message -----

From: "John_Evans" <jaevans@codenet.net>

> You had switches?? We had rocks and we had to
> scrape holes in them to make an abacus... and we
> had to carry it uphill both ways to school in the

> snow!!!!
>
> 72 - john - n0hj
>
> ----- Original Message -----
>
> >You had a disk??? I go back to PDP-8a's with toggle switches. You had
> >to 'switch in'
>
>

End of QRP-L Digest 2523

